

JANUARY 1984

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Author: T. P. Wicks.

RING OF POWER

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for the mystical ring.
Graphics/Text Adventure.
Commodore 64.

Authors:

Fred Preston &
Bob McGilchrist.

3D
Menace but
the deadly snipping
Shen.

Commodore 64
(Joystick or Keyboard)
Designer: John Hallie
& Programmer
Steve Hickman.

PURPLE TURTLES

Turtle bobbing with
the cute Purple
Turtles.
Commodore 64.
Joystick or Keyb.
Authors: Mark S.
Richard Moore.

BBC PROGRAMS

MINED-OUT

Save Bill The Worm
from Certain Death.
BBC model B 32K
(10 + 12 operating
systems only)
Authors: I. Andrew
& I. Howlings.



BBC-ART

High Quality Art/
Design program for
versatile manipulation
of the BBC's graphics
ability.
BBC model B 32K
Author:
Dave Mendes.

THE GENERATORS

Superb Character
Tutorial Disky.
BBC model B 32K
By the author of
Beet-Art.
David Mendes.

SUPPLIED TO BENTIENT BEINGS
THROUGHOUT THE UNIVERSE



—ES SNAKE'S LAIR (Adventure)

Battle the Demons of
the Goblin Labyrinth
and the Evil Wizard
Velnor.
Spectrum 48K
By Derek Brewster
of Neptune
Computing.



SMU COVE

You are caught in a
fable full of horror and
Black Beard's
Treasure.
Spectrum 48K
Author:
John Kenanly.

FRANK

Wipe your way thru
the Gnat.
Spectrum 48K
Designer:
Jeff Mintan.

GRIDPLANNER
Spectrum version of
VIC 20 No. 1 best
seller.
Spectrum 48K (18K)
Designer:
Jeff Mintan.

AQUAPLANE

Aquatic Action!
Spectrum 48K
Author: John Hallie.

XADOM

Battle through a
sophisticated alien
maze on this Amos/
Adventure.
Spectrum 48K.
Author:
Mike Muscott.



A battle... Nerve and
Wits. Faster than a
speeding bullet!
Spectrum 18K
Author:
Freddy Vachna.

BUGADOO (THE FLEA)

No Nuts on This
Program!!
Booby Action!!
Spectrum 48K
Author: Indescomp.



Battle the ants in the
walled city of
Antschien.
Spectrum 48K
Authors:
Sandy White

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News & Reviews

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We take a look at a strategic tank battle on the Spectrum, Fleet Street's first offerings in the shape of Microsoft.

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An exclusive review of the brand new International Soccer cartridge for the 64. Video Games World Champion — Andrew Brzezinski checks Parker's Super Cobra.

VIDEOGAMING 40

We have three super Colecovisions each with a Turbo Module and Donkey Kong cartridge to give away in our Name The Game Competition. Our Joystick Jury pass judgement on Popeye for Coleco, Mavis 2040'er and Robot Tank for the VCS, Bedlam for Vectrex, and Venture for the Intellivision.

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Will ya make it to the airfield? Atan owners up in the air!



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The thrills of the race track are captured in this driving game which should drive Dragon 32 owners to distraction.

CRAWLER 78

Can you blast this creepy beast? If you don't like bugs you'll love this BBC Model B game.

TURNIP TURMOIL 96

Civil the gourmet caterpillar loves fruit but won't eat his greens. It's tough for caterpillars in the Vic-90 garden.

SPACE BLOCADE 102

David Langford deserves some of the credit for getting this game off the ground. Try to guide Earth's escape shuttles through the massed fleet of alien invaders on the ZX81.

ROX 64 108

Jeff Muller offers up this early 64 space shoot-'em-up as he challenges you to save a planet from a meteor storm.

LOST IN THE JUNGLE 120

It's going to take us more than one issue to tackle this masterpiece. It's a graphic adventure in the land of the giant apes. Sharp MZ-80K owners start here.



Extra, extra

The ever-popular computer adventure is starting to make inroads into the arcade games sales.

In recognition of the new lease of life being enjoyed by adventures we have a 28 page supplement in this magazine, devoted to Adventure.

Put together by our regular helpline experts, Keith Campbell and Simon Clarke, we have seven pages of Adventure reviews.

There's news of new Adventures shortly to be released, our regular Helpline for those in trouble with particularly knotty problems and a great competition if you can fit our 12 strange objects into our 19 peculiar locations and give us an adventure plot.

We interview Scott Adams, "Mr Adventure" in the US and Philip Mitchell, Melbourne House's Hobbit mastermind from Australia.

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Commodore 64 software means, more on the Jet Pac bug and a reader spots Donkey Kong II in an arcade.

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Editorial and advertisement offices: Durran House, 8 Harbord Rd, London EC2R 8DZ. Telephone: Editorial 01-578 3895, Advertising 01-578 3861.

COMPUTER AND VIDEO GAMES PORTAL SUBSCRIPTION SERVICE. By using the special Portal Subscription Service, copies of COMPUTER AND VIDEO GAMES can be mailed direct from our offices each month to any address throughout the world. All subscription applications should be sent for processing to COMPUTER AND VIDEO GAMES (Subscription Department), Comparison House, Farnham Road, Market Harborough, Leicestershire. All orders should include the appropriate reference made payable to COMPUTER AND VIDEO GAMES. Annual subscription rates (12 issues): UK and Eire £14. Additional service information including individual overseas annual rates available upon request. Circulation Department: EMAP Historical Publications, Published and distributed by EMAP Historical Publications Ltd. Printed by Eves Press (Southend) Limited.

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Cover illustration: Paul Slater

Next issue: January 1985

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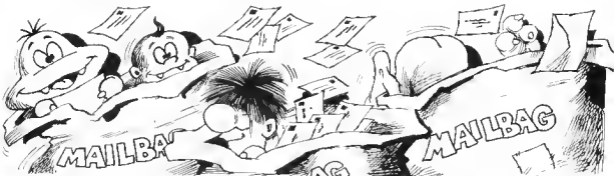


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CHILDISH TRIPE?

Dear Sir,
Print this if you really want to put the cat in among the pigeons! I bought a Spectrum a few weeks ago purely for game playing, after all, I thought, there must be a decent selection of fairly intelligent games for 33-year old old-timers like me.

But ye gods! 90 per cent of games software seems to be puerile childish tripe with serious stuff hard to find. I think it's an absolute disgrace that all people can find to do with their miraculous micros is to chase aliens and such like across the galaxy!

Perhaps game designers are to blame, I don't know, but things are in a sorry state if they haven't the brains to produce games to tax the imagination at least a little!
Mike Goodwin,
Leicester

Editor's reply: Well, what do YOU think?

NUMBER TROUBLE

Dear Sir,
I own a 48k Spectrum and I have a problem. Please could you tell me if there is an address in the micro in which I can poke a number, switch the computer off and then on again, peek that same address and still find the same number poked in it?
Tim Allen,
Tonbridge,
Kent

Editor's reply: There are two types of memory chip in a computer: Random Access Memory (RAM) or Read Only Memory (ROM).

RAM can be freely poked to alter its contents, but loses its value when the power to the computer is turned off, ROM, on the other hand, is programmed at the factory

and cannot be altered by POKE. It does, though, retain its contents even if power is turned off.

So, unfortunately, there's no way of poking into the Spectrum's RAM and having the value still there if you turn the machine off and then on again, except if you buy a special RAM pack which has a small built-in battery.

FURTHER ADVENTURES

Dear Sir,
In the August issue of your excellent magazine, you published a letter from Mr. J Bull of Eastbourne. In this letter he wrote of a Donkey Kong machine with gaps in the beams for our hero Mario to jump across.

This game is called Donkey Kong Part II made, if my memory serves me correctly, not by Nintendo but by a games company called Falcon. I have played Donkey Kong Part II in South Africa and Greece and found it was much the same as Donkey Kong apart from slight screen variations. Also it has a delightful little scene at the beginning showing Kong breaking out of prison.

On the first screen, there are the afore-mentioned gaps in the beams, but these need not be encountered as you can "jump" a whole screen as in the normal Donkey Kong.

This is done by climbing up the first ladder, then nudging the joystick twice to the right so Mario still has his back to the player. Now, by jumping to the right our knight in shining boulder suit jumps off the beam and slides down the right of the screen onto the next one — the pee screen.

On the plug screen, any contact with Kong loses one of Mario's lives, but jumping off the top to elude fireballs is still possible on this

version. Mario just bounces back up on reaching the bottom unhurt. This requires perfect timing.

Another trick to prolong Mario's life and collect more points is by dropping the hammer on the pee screen, but only on level two upwards, when, on Donkey Kong Part II the conveyor belt moves faster, so Mario must jump against its movement to get anywhere.

It is achieved by moving to the right of the screen on the lower conveyor belt, picking up the hammer on the way. On reaching the side simply nudge the joystick to the right and it will leave the hammer, bashing away, while Mario hops off to collect a high bonus.

The hammer destroys everything that it touches giving points for this at the same time. Even when the hammer disappears after a while, pies etc, still get booted by an "invisible" hammer.

As of yet, I have not seen Donkey Kong Part II in Britain. Perhaps other readers have?

Stephen Brown,
Chepstow,
Gwent.

TINKERING WITH TI

Dear Sir,
I am 14-years old and own a TI99-4a with Extended Basic, a speech synthesiser and a few other peripherals as well.

I have found out, totally by accident, something rather interesting on the TI99-4a in console or Extended Basic.

Type 10 REM and then fill it up with as many control characters as it will let you, I often use CTRL and the comma key as this seems to get the best results. Now enter the line and edit it.

Instead of being blank as it

was when you typed it in, it is full of various other characters. The beginning of the line will go off the top of the screen and perhaps the screen will change colour or do something else unusual.

Now move the cursor around, even though you can't see it, using the cursor keys — FCTN and GCTN — and you should see pretty interesting results.

If the system crashes, don't panic, just switch it off wait a second or so and then switch it on again and everything should be alright. Have fun and experiment and you might find something new about your TI.

Stephen Morecroft,
Stalybridge,
Cheshire

BEATING THE KILLER . . .

Dear Sir,
I would like to point out that in Killer Gorilla Mario will only fall down for no apparent reason if the bonus score runs down or if you stay still too long. In fact, the only thing I find difficult is getting onto the lifts on the 3rd screen — from then on it's just a case of looking out for fireballs and iron beams.

By the way, is all software for the BBC model B compatible with the Electron and is there a Zaxxon game available for either the BBC or Electron?

Mark Dodwell,
Highcliffe,
Dorset

Editor's reply: Thanks for your tips Mark and yes, most BBC software will work on the Electron, but I suggest you check with the software company before you buy the program. Zaxxon isn't available for the BBC yet, but if one appears, you'll read about it first in our Games News section.

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Yes, I would like to order the following games at the best price.

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MAILBAG



MY SEARCH FOR KONG

Dear Sir,
I am writing for advice on which Donkey Kong cassette is the best value for my Vic-20 with a 16k expansion.

Carl Toole,
Blackburn,
Lancs

Editor's reply: We huddled together in the office to debate your question Carl and came to the conclusion that the Anirog version is about the best. Although quite frankly we have yet to see a really good Kong for the Vic.

TALKING MY LANGUAGE

Dear Sir,
I have a Vic-20 with a 64k Rampack. I would like to know if games for the Commodore 64 would be compatible, in particular The Hobbit. Also could you tell me what language, apart from Basic, can the Vic-20 be programmed in?

J. Campbell,
Falkirk,
Scotland.
Editor's reply: I'm afraid The Hobbit isn't compatible with the Vic, Mr. Campbell. The only games that are compatible will be text-based. Forth and Assembly Language are available on cartridge from Commodors.

CRASHING SPECTRUM

Dear Sir,
Three months ago I decided to get my trusty 16k Spectrum upgraded, and as it was still under guarantee and I didn't want this invalidated, I duly sent my fully operational machine off to Sinclair Research with the required £40.00.

Now, three months later, I have just returned my machine for the THIRD time, as it appears the infamous Sinclair bugs have been at work again. My once fully working machine crashes every time Sinclair send it back to me, Sinclair seem

only too happy to take my money, but they don't seem too keen on giving something back in return. So all you 16k owners — beware!

M. Gilpin,
Woking,
Surrey

PUBLISHING YOUR GAMES

Dear Sir,
I have recently started buying your magazine each month, and have seen that you publish readers' programs. Could you please tell me the correct procedure for submitting such programs? Is a listing and/or cassette required and would you also please give me details of payment and copyright?

M. D. Reeve,
Derby

Editor's reply: A program has a better chance of being published if it has an original and interesting theme.

All our games are tested by our review team, so it may be a couple of months before you know whether your program has been successful.

As from this issue, we will be choosing one listing which will become the Game of the Month and the author will receive £25.00. We pay £10.00 for all other games. We retain the first British publishing rights but the copyright remains with the author.

You should send us a tape and a listing, along with one of our software forms found elsewhere in the magazine. If you can't manage a listing just send us a tape and we'll arrange to get a printout. Most importantly don't forget to include your name and address!

DANGEROUS ELEVENSES!

Dear Sir,
I have just split a cup of coffee onto one of my Atari discs with a program on it — and now doesn't work!

Please could you tell me if there is a program available somewhere in the UK that would enable me to make a

back-up copy of my extremely expensive Atari discs and if so where can I get my hands on it? I have tried many shops but with no luck

J. Eatough,
Blackburn,
Lancs

Editor's reply: Unfortunately there is no way of recovering the coffee-flavoured disc, but there are programs available in the classified adverts section of various magazines which claim to be able to back-up discs.

I suggest you write to one of these and ask exactly what this program will do. Please remember that although you are entitled to make a back-up for your own use, it is illegal to sell, lend or hire these copies.

AN UPSET DRAGON . . .

Dear Sir,
Ten months ago I bought a Dragon 32 for Christmas. Six months ago things started to go wrong. First its so called 'reliable' tape recorder stopped recording programs for me, then I found the joystick ports were moved up — that is I had to use the right hand commands for the left joystick and vice-versa!

It has now been a month in the workshop and it doesn't look as if it will be out for quite some time. My friends have experienced similar problems on their Dragons. So now I'm faced with the problem of buying another computer. I was going to get a Vic-20 but I heard it was going off the market so I am thinking of buying a ZX Spectrum. Can you tell me if it has a good cassette player for loading and recording programs?

Also is Panasonic still available for it as I was going to buy it for the Dragon before the cassette became faulty?

Also could you recommend a good word processor? Martin Thomas,
Co. Dublin,
Ireland

Editor's reply: Firstly, there has been no official announcement from

Commodore that the Vic-20 will be taken off the market. In fact it is selling very well and there is a lot of software available for it.

If you are thinking of buying a Spectrum, don't let the thought of the cassette loading put you off. The machine should work with most cheap recorders without trouble. If you are looking for a word processor — try the Tasword II.

GAMES FOR THE 64 . . .

Dear Sir,
I would like readers to reassure me on a few facts. Thus Christmas I am getting a Commodore 64 home computer which in my opinion is the best computer for about £200.

Although a lot of British written software is now available, a vast amount of software from America is also available.

Most of the latter programs, mainly games, have been based on existing Atari software and some friends have said that these programs seem to be badly programmed or not as good as their Atari counterparts.

As these friends own Atari micros and will be biased I do not know whether they are telling the truth. Also one of my favorite games, Choplifter, is said to be better on the Atari 800 than the Commodore 64 on graphics. As I haven't seen Choplifter on the Commodore 64 I would like to hear other Commodore owner's opinions to put my mind at rest.

I can't see why Commodore 64 games shouldn't be as good as Atari ones. As for the sound, the Commodore 64 is far superior and as to some of the puny sounds on some Atari games these could be vastly improved using the 64.

David Gardner,
Fleetwood,
Lancs
Editor's reply: Well David, so far we've seen some pretty good games for the 64 — but we'll call on other 64 owners to tell you what they think.

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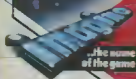
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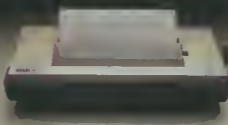
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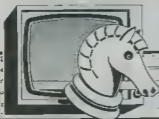
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CHATTING TO YOUR HOME COMPUTER

MICRO COMMAND

Having a quiet chat with your computer will no longer make you a prime candidate for carting off to the funny farm.

You'll be able to chatter away to your hearts content when you plug in this latest interesting addition for the Spectrum from Vantage Systems.

Micro Command is a new add-on expansion for the 16 or 48K Sinclair Spectrum which will soon make conversations with micro computers common place. The box plugs into the back of the Spectrum and is designed for use with specially commissioned games.

Virgin Games is one software house that is known to be supporting Micro Command with games adapted from their pre-

sent range.

Micro Command operates by prompting the player to say a particular word three times for example left, right, and is repeated for all the game's controls. The program re-checks each entry at the end to make a comparison with the words stored in its memory.

The add-on is supplied with a microphone and feed, a detailed instruction manual and demonstration program, which lets you play a sheet-an-up game by just telling it to move left, right and bra.

It all sounds like a remote controlled version of *The Golden Shot*. You may not remember the TV show which involved Bob Monkhouse, several apples, a crossbow and Bernie the Bolt. You just don't know what you missed. Anyway — back to the technical stuff.

Micro Command is claimed to be the world's first word recognition device available for a home computer, and what's more it's British designed and manufactured.

Vantage Systems, the manufacturers of Micro Command are considering launching a Commodore 64 version and maybe one for the BBC micro if there is sufficient demand.

Micro Command will be available in early December by mail order from Brighton based Vantage Systems for £50.

ATARI BRAVE BRAND NEW FRONTIERS!

ATARISOFT

Atari have decided to extend their range of software to other home computers as well as for the 400/800 and 600K.

Atarisoft, formed just over a year ago by Atari International, have recently launched a new range of arcade based games for the Spectrum, Vic 20, Commodore 64, BBC Dragon and Texas. Said Atari: "Our aim is to bring quality games to other home computers with the aim of keeping them as close to the arcade original as possible." They include such old-time favourites as Pacman, Defender and Robotron as well as some more recent titles like Dig Dug and Centipede.

Having bought the licences to manufacture these games, Atari are now in full swing providing more software for this already overcrowded corner of the market. However it would be nice to see some original titles for the hoards of hungry micro owners instead of yet another version of Donkey Kong or Galaxians.

The games will be available in cassette or cartridge form and the prices range from £14.99 to the more usual £29.99.

IMAGINE GET ALL TANKEO UP

STONKERS

Weir Games are fast taking over from shoot-em-ups as the most popular kind of computer game.

With this in mind Imagine have released Stonkers — a tank battle simulation played against the computer.

The game is a three dimensional 3D tactical war simulation. Your aim is to outsmart the computer's tank battalion and crush the enemy's army.

The screen display shows a large scale map of the battle field. The program also allows you to have close up shots of various scenes anywhere on the large map.

All the graphics in the game were created by a team of professional artists. A musician was also employed to make sure that all the sound effects were just right.

Imagine's other Christmas release is Alchemist. The game is a real time graphical adventure in which you play the role of a wizard.

The Liverpool firm are also offering a special Christmas package of Mole Man and Ah Diddims for £9.50.

The other two titles will both sell for £5.50. Stonkers is available in late November and Alchemist should hit the shops just before Christmas.

WANT TO BE A ROCK SUPERSTAR?

K-TEL

K Tel, the only price record people, will be entering the software market with a big bang in the next couple of months.

They will be launching six new games for the Spectrum and four for the Vic-20 in a series of double-sided cassettes in an effort to capitalise on the Christmas market. Not a new innovation perhaps but good value for



G·A·M·E·S N·E·W·S



money with each cassette containing two games.

Featured on the Spectrum will be *It's Only Rock 'n Roll* — a role playing game where you become a budding pop star and *Yomb of Draculo*, an arcade style game for the 48k micro.

Aliens and Alien Swarm are good old shoot-'em-ups and run in 16k with *The Battle of the Toothpaste Tubes* coupled with *Cesite Golditz*, a text adventure game for the 48k Spectrum.

Games for the Vic-20 will include *SupaVaders* and *Bomber Run* for the unexpanded Vic with *Alien Demon* and *Plagna* for the expanded micro.

You can expect to see these new double sided cassettes in most leading retail outlets within the next few weeks and they will also be available direct from London based K-Tel International at £6.96.

WELL, HELLO SAILOR, I'M THE SEAHAG!

POPEYE

Your mother soon won't have any need to nag you into eating your greens.

Home computers have jumped on the health food band wagon, making spinach an essential part of every game's TV dinner.

Popeye is the latest cartoon character to be immortalised on micro chip. Ugly Brutus is up to his usual tricks and has imprisoned Popeye's sweetheart Olive

Oyl in a derelict house. The Parker cartridge is based on the recent arcade game.

You must guide the gallant Popeye around the deserted building Olive is trapped in, and collect the heart-shaped kisses she blows to you before they hit the ground. Brutus tries his best to thwart your attempts and you won't get the chance to give Brutus the bashing he deserves — unless you pick up a can of magic spinach that sometimes sprouts around the edge of the building.

Unfortunately for Popeye Brutus is not alone. His evil accomplice the Seahag lurks in the shadows ready to leap out and throw a stream of bottles at the brave sailor. Popeye's only line of defence is a well timed punch aimed to break the glass.

Each level is set against the clock and it becomes a real struggle to collect enough hearts to move onto the next sheet.

Popeye proved to be a winner in the US arcades earlier this year — but perhaps you missed his visit to these shores. If you did, this new Parker Brothers game for the Atari will make up for it!

Perhaps we'll soon see a sequel to the game too! We certainly hope so. Maybe even a prequel?

Meanwhile if all this action is making you hungry and you fancy a taste of spinach then I'm sure Parker Brothers can offer Atari 400 owners a take away Popeye for a tasty £29.95.

LAST OF THE SLOW LOADERS

FAST TAPES

Cassette based loading has many advantages, low cost and ease of use but it has one major

How many times have you

over six minutes using the conventional tape set up.

Limasoft hope to use the program with all their software. They will still include an ordinary version on one side just in case your tape deck can't stand the pace.

The company have no intentions of buying the sole rights to the program so it may well become a standard feature on all CEM 64 games.

Could this mean the end of the disc drive as we know it?

WATCH OUT FOR THE SERPENTS

SERPENTINE

Sightings of the Loch Ness monster should increase rapidly in the New Year thanks to Audio genre.

Serpentine is set in the distant future on an alien world infested by serpents. All is not peaceful however.

The land is being torn apart by an age old grudge between warring, serpent races. And they are all very slippery customers indeed!

The environment is hostile and the chances of survival slim. You must help the bane serpents to avoid death, protect their eggs and raise their young.

Your arch enemies, the orange snakes, can only be defeated if your serpents grow bigger and more powerful. This is accomplished by eating eggs, frog and eventually, other serpents.

The more the monsters eat the hungrier they become and each new level presents a greater "gastronomic" challenge.

In addition to this, Audiogenic have two other Christmas releases for the CEM 64. They are *Choplita*, a conversion of that very popular helicopter war game and *Safoax*, a submarine simulation program.

The games are for the Commodore 64 but come in cartridge form only, costing £29.95 each.



Illustration: John Dwyer

The puzzle

Allen present the ultimate in word puzzles – 30 integrated crosswords which form a cube.

All locations of this 3 dimensional puzzle are contained in the computer programme and you can complete any part you wish using the display on your TV and computer keyboard. Understanding all the relationships between the

crosswords is not possible without the computer but as you proceed you will discover new routes to help achieve the solution

Features: Solution Store, Instant Display, Anagram Function, Character Location In memory.

This is a tough puzzle with a degree of difficulty – it's the ultimate but it's not impossible. Full instructions are included with the programme.

to sender of first
correct taped
solution run on
our computer on
1st June 1984

Please mail me ☐ copies of the Alien Ultimate Crossword puzzle programme at £14.95 per copy inc. P & P for the

☐ BBC Model B ☐ Commodore 64 ☐ Spectrum 48K
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Alien

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C&VG's DESIGNER OF THE MONTH

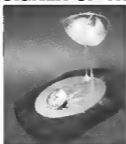
NAME Christian Penfold with acknowledgament to Mel Croucher Software House Auto-mata Cartography Games Pimania, Groncho Born Littlehampton, Sussex in 1955

COMPUTER HISTORY "It's interesting this. It began three years ago, coming back on a Sealink ferry from the Channel Islands

"It was an extremely tough crossing and I was green from the moment we left Mel Croucher like other hail of Automata who was completely unaffected, said 'I've bought a ZX81 computer

"He then proceeded to write a 20 page program for the UK ZX81, finishing as we finished the awful crossing and I disowned it 'It's yours you write the programs'

"But I did eventually set it up with a How to use your ZX81 book and cassette and I was totally hooked — 8am to 10pm seven days a week I now get seven more in on it of it. Then we got hold of a Spectrum and Pima-



Here it is — the Golden Smidol of Pi Worth £5,000 the much coveted prize is set up for grabs in Christian Penfold's Pimania Designer of the Month profiles the man behind the game

nia was launched in November 1982

Pimania and Uncle Groncho are new TV stars in the Magic Micro Mission and Pimania has just topped the charts in Germany

"Our ideas are all a team effort, myself, Mel and a young programmer we've just taken on called Andrew Staggs. We throw

an idea up in the air, it bonnaces around for ages, getting funnier and funnier and when it comes down we just have to get the computer to understand what we've been talking about

"Ideas are not a problem, it's finding the time to produce them all. We've drawers full of ideas' **FAVOURITE FOOD** Garlic, snails in garlic butter I adore any food cooked well in garlic

FAVOURITE DRINK Brandy & Lovage (a herbal cordial from the South Downs)

FAVOURITE TV PROGRAMMES Monty Python, Not the Nine O'Clock News Three of a Kind **FAVOURITE COMPUTER PROGRAMS** ZX81 version of Pimania and Ultimate's Ask Ask

COUNTRIES VISITED Too numerous to mention but I enjoyed Germany, US and Canary Islands

PETS None but I would love a beautiful St Bernard puppy **AMBITIONS** To succeed Money is not important **FAVOURITE POP GROUPS** Or Hook

ELECTRO POP COMES TO YOUR MICRO

ULTISYNTH 64

The explosion of electronic music has revolutionised the face of the British record industry over recent years

But even with the huge leap in microchip technology, synthesizers and electronic drum kits have been well out of the price range of most people — until now!

Many of the popular microes, the BBC, Commodore 64 and Vic 20 contain the same sound chip as expensive dedicated synthesizers, which can easily cost over a £1,000

Having noticed the sorely underdeveloped sound capabilities of the Commodore 64, Quicksilver have released a sophisticated synthesizer package. The program, Ultisynth 64, has greatly simplified the programming of the sound chip

The last channel is for your music composition. The second and third are used for a drum beat and set melodies. The program will also imitate many instruments ranging from a trumpet to a harpsichord

You're not tied down to just making music. Ultisynth 64 also has the facility to produce arcade sound effects which together with the music can be saved to tape

Quicksilver claim that Ultisynth 64 is straightforward to use but it takes a 50 page manual to explain the program's more advanced features

The cassette will be on sale around the beginning of December from Quicksilver for £14.95 (including manual)

BBC owners haven't been forgotten. They have their own music generator program written by Quicksilver. Which means you don't even have to attempt to learn any of the Beeb's advanced, but complicated sound commands

LET'S SEND A COMPUTER SANTA GRAM

XMAS CARDS

Forget Christmas cards this year send your friends computer cards instead

Elm Computers have developed three seasonal programs that make an original change to the traditional Xmas card

There are three versions of the 'electronic cards' available. All include festive themes and yuletide tunes. All have animated graphics, featuring falling snow, Father Christmas and flying reindeer

Apart from the addition of sound and moving graphics the computer cards follow the theme of their paper predecessors

closely. The usual scene of Santa flying over roof tops is included as is the obligatory Snowman card.

All the programs are available now from Leicestershire based Elm Computers for £2.50 each or £7.90 for a pack of three

HERO WITH A YELLOW STREAK...

TARMAC TIM

Tarmac Tim is the unlikely hero of a new arcade style game for the Spectrum

He has been employed by the Spectrumville Council to paint the double yellow lines along the roads

Today he is working on the notorious Sinclair Road. The road is used by manic drivers. Any pedestrian who has the courage

to cross it, risks life and limb in the attempt

Overall-clad Tim must protect the jay walking residents from the murderous motorists. He must dash his paint around the people, which miraculously stops the cars from running them over

You'll have to keep Tarmac Tim out of the way of the traffic too, because the drivers have no respect for Spectrumville's leading painter. And you wouldn't want to spill the paint all over the street would you?

As the day progresses the rush hour gets nearer, the road becomes ever more treacherous as bed-wetters drive home. Tim will be stretched to his limits protecting Spectrumville's citizens

Don't be a Trouble is the last games release from a new company based in Southampton called Starlite. The game costs £5.60 and will be available in early December

G·A·M·E·S N·E·W·S



COME PLAY WITH THE MR. MEN

GAMES

Newspaper grants the Mirror Group have taken a step into the world of computer software.

Mirrorsoft the company's new software publishing division has just launched a range of three programs. One of them is an arcade game the other two are educational programs one of which is based on the cartoon characters the Mr Men.

The Mr Men are already extremely popular cartoon characters and appear in books and newspaper cartoon strips — so why not a computer game?

Caesar the Cat is a mice chasing game in the best traditions of Tom and Jerry. You play Caesar a hungry young cat who prowls the well stocked larder in search of greedy mice.

Guide the cat along the shelves of the pantry in hope of finding a mouse, but watch out for the crockery!

The game has full colour Hires graphics, sound effects and includes a high score table.

All the software is being written



by independent software houses for Mirrorsoft. The company hope to back up their present range with more releases in the new year.

Caesar the Cat runs on a Commodore 64, the Mr. Men on a BBC model B. Both games will be available in late November costing £8.95.

These are the first of the Mirrorsoft group's releases. Watch this space for news of more to come.

JUST WHAT IS GOING ON HERE?

MANIC MINER

Manic Miner has made a name for it and that's official. Miner Willy Bug Bytes' most famous computer game character has left to join a new company called Software Projects.

Has Miner Willy been given a free transfer? Or has Bug lost faith in Willy's ability to get past the Mutant telephones? No, in fact it's the climax of a long running argument between Bug Bytes and one of its former employee's Matthew Smith.

In his contract with Bug Bytes Smith had a clause written in which gave him the right to force Bug Bytes to withdraw Manic Miner if he wished.

Smith's departure from the company was surrounded by rumours of falsified sales figures for the game and missing royalties owed to the programmer. Although a Software Projects spokesman gave a terse no comment to my questions about the royalties dispute or reasons for the apparent battle.

Bug Bytes have been allowed to sell their remaining stock of the game but they have now lost all rights to the game or any sequels.

Software Projects also plan to release Miner Willy on the Commodore 64 and a follow up to Manic Miner on the Spectrum.

AMERICAN INVADERS ON THE WAY

ELECTRONIC ARTS

Electronic Arts is the name of a new American software house set up by a group of independent games designers.

The best known of Electronic Arts designers is Bill Budge who wrote the hit pinball simulation — Rasterblaster.

Budge is slightly apologetic for the arts angle being used to promote the company's games. "I'm not so sure there are any software artists yet. Maybe we've got to earn that title."

Despite this cynicism the games are causing quite a stir across the Atlantic and they are now also available in the UK.

Budge gets back to his pinball roots in the hottest of the releases — The Pinball Construction Set. The program enables you to design the pinball of your dreams — you can choose all the special features, the strength of the spring, colours, and number of players.

Other highlights of the range are Archon — a game that combines the strategy element of chess with the shoot 'em up gameplay of an arcade style game.

Murder on the Zinderneuf is the adventure game from the range which is a who dun it aboard a World War One flying ship.

All games come on disc for the Atari with 48k and the Commodore 64. On disc only at £29.95 from Birmingham based Centre-soft.



How to program with a VIC 20



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5 days in
M... on...

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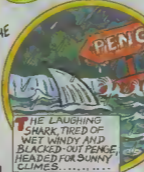
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VIC20/184

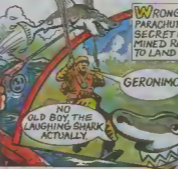
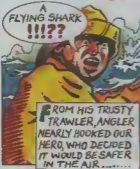
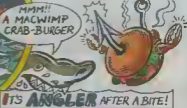
Games

THE AMAZING ADVENTURES OF THE LAUGHING SHARK PART THREE

GOSH



FEELING PECKISH, HE WAS TEMPTED BY A MOUTH-WATERING SNACK DANGLING BEFORE HIM. BEWARE MIRTHFUL HERO....

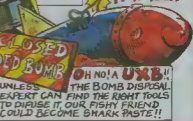


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VGC 4004
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Noc-A-Bloc
by Richard Bygrave
BBC B
VGA 3010
Just when you thought it was safe to go back in the deep freeze! JoyStick/Key



Ghost Town
by John Pickford
Spectrum 48K
VGC 1012
An intriguing graphical adventure

TAKING HURRIED SHELTER
THE LAUGHING SHARK FOUND
HIMSELF IN COLD STORAGE
SURROUNDED BY DREADED
SPODS, ONLY ONE HOPE...

**GO ON FIN FACE!
MOC-A-BLOC
SPLAT A SPOD!!!**

THAT'S
GOLD IN THEM
THAR HILLS

TIME TO GO. HOP ON
THE VIRGIN BUS -
DESTINATION...
GHOST TOWN

THERE'S A LEGEND
HEREABOUTS THAT
SOMEWHERE IN TOWN
ARE THE CLUES TO
FIND THE MAP SHOW-
ING OLD JAKE'S MINE.

THERE'S
NO BOVVER WHEN
YOU HONVER

FULL OF TIME BOMB9 -
FLAGS, MINES AND.....
WATCH OUT!! BOVVER BOOTS.
WHAT A **CRUNCHER!!**

NOT MUCH WATER IN
THESE PARTS. A SHARK
COULD DIE OF THIRST...
BEFORE STRIKING IT RICH.

LEAVING THE DESERT
BEHIND, CHORTLE CHAS
FOUND HIMSELF IN A
STRANGE LAND....

BETTER STOP THE
FLASHING TIME
BOMB - BEFORE IT
GOES OFF - BUT
GET CRUNCHED!!!

LITTLE DID THE LAUGHING
SHARK KNOW THAT ON THE
ISLAND HE WAS PASSING
WAS TO BE FOUND A HORDE
OF BURIED TREASURE
WITH A SERIES OF PERIL...

BACK TO SEA AT LAST!

ING PERIL9 TO FACE
I THINK 'THE DYNAMIC
DORSAL' HAS HAD MORE
THAN ENOUGH VIRGIN
GAMES EXCITEMENT TILL.....
MEETS THE FRANTIC FERRET!

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Joyditch-Key



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R·E·V·I·E·W·S



AQUAPLANE



ZAXXAN



SALOON SALLY



KONG



CYLON ATTACK

Have we got some great games for you this issue! Well, have we? Of course! Kicking-off with our game of the month — International Soccer for the Commodore 64, which we reckon will soon overtake Match of the Day in the popularity stakes. You'll find the review on page 28. We've also taken a look at Donkey Kong games for the Spectrum and come up with our favourite. Turn to page 28 if you're a Kong fan. Take a trip back in time to the

good old Wild West and meet Saloon Sally. We take her to task on page 31. Arcade Zaxxon comes to the Spectrum with a slight change of spelling. Read our views on this 3D shoot-out on page 28. More space action when the Cylons attack. Are these aliens a real challenge? Find out on page 37. Jaws reappears from the depths attempting to take a bite out of unsuspecting water-skiers! Our water-sports reviewer reports on page 31.

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origin... certainly deserve the... 19 20 (Practical Computing - August 1983)

"When I first received this game I spent the best part of the weekend playing it. Since then I have returned to it more often than any other. The truly addictive quality of this game is the remarkable way it mirrors the real football manager's problems." (Personal Computer Games - Summer 1983)

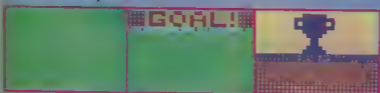
It is my own fault you did warn me - I am totally and completely hooked on FOOTBALL MANAGER" (Mr A. Wright - Lancashire)

It is by far the best software game I have seen for the Spectrum (Mr N. Lincoln - Surrey)

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R·E·V·I·E·W·S

COMMODORE CUP FEVER IS CATCHING!

SOCCER

HRH makes her debut in computer games when she presents the winning captain with the trophy in Commodore's latest International Soccer Cartridge.

The football game is by far the best sports simulation ever produced for any microcomputer and is the standard by which all future sports games will be judged.

Several game play options enable you to choose the colour strip of your team so that you can choose your favourite team's colours, you can also choose the length of each game and whether to play against a friend or take on team Commodore.

It's the graphics that make the game — the running movement of the players is about as authentic as computer graphics will allow.

When the ball goes out of play the computer acts as referee and knows whose throw it is — the nearest appropriate player trots over to the ball, lifts it above his head, and throws it in. The referee also awards corner kicks and goal kicks and is very fair and sporting generally which deserves praise as in the one player or game the computer is both referee and opponent.

The goalkeeper is capable of athletic dives and leaps that would make even Pat Jennings sit up and take notice.

There are so many nice extras in this cartridge like the cheering crowd who sway to and

the advertising slogans around the perimeter of the pitch but perhaps the best is at the end of the game when the winning team

line up in front of the stand and are presented with the cup by the Queen. The winning captain then raises the trophy above his shoulders to take the adulation of the fans.

The game plays well as having outstanding graphics — passing and shooting require considerable skill and it is possible to construct some quite complex moves.

The best game yet for the Commodore 64 and at only £9.99 an absolute must.

● Getting Started	7
● Graphics	10
● Playability	9
● Value	5

NO SURRENDER IN THIS BATTLE ROYAL TANK BATTLE

Whole divisions of enemy panzers are about to breach the anti tank barriers to be let loose on your HQ. With only three tanks left, can you stop the invasion and prevent an unconditional surrender?

Moving east and west you can elevate and lower your tank's gun turret to alter the trajectory and range of fire.

The battlefield erupts in explosions as the enemy fire back — unfortunately their fire is horribly accurate — but it is possible to knock out quite a few before you go up in flames.

The enemy tanks move from right to left across the screen descending towards the anti-tank barriers. Once they've reached this point they are below your gun barrel depression

It states in the cassette info that once 10 tanks have penetrated your defences the game ends; in reality only five have to

get through to your HQ to end the game.

Some tanks appear as 'ghost' tanks — mere shadows compared to the rest. I'm not sure whether this is meant to portray distance but 10 points are still awarded if you manage to blow them up. Far more difficult to hit are the red tanks which seem to appear at random and move at a faster speed.

There are five difficulty levels, although I wasn't able to determine much difference between them. In fact, I scored higher on level 5 than on level 1.

Tank Battle is enjoyable to play with the added incentive of trying to beat my previous best in the Hi-Score charts. However, control is with the TI joystick which is exceptionally uncomfortable to use and very unsportsmanlike — the game would have been much improved with a better joystick.

Using an Extended Basic cartridge, Tank Battle is available from Temptation Software for the TI99/4e at £5.95.

● Getting Started	6
● Graphics	7
● Playability	5
● Value	6

PIRANHAS BUG YOU UNDER THE WAVES!

BUG DIVER

Frogger dons a wet suit in this latest version of the hit scrolling arcade format.

You play the part of a little sea bug who decides to help out some fishermen by collecting fish eggs from the depths of the ocean floor.

There's only one problem — these eggs are guarded by a shoal of ferocious piranhas. Graciously they swim back and forth

over the valuable cache of eggs and will go to any lengths to stop them being stolen.

Your job is to stay alive by dodging the piranhas in a very Frogger-like manner using the cursor keys. Once at the bottom, pick up an egg and try to make it back to the surface where the thankful fishermen will come along in their speed boat and relieve you of your load.

A nice feature in the graphics is the piranhas' faces, when they eat you — it happens all too frequently — they all turn as you to face outwards and leer at you in a loathly grin!

There are eight eggs to be picked up before moving onto the next screen where life becomes more difficult. However the controls are unresponsive and you will do well to pick up three eggs. Bug Diver is an interesting variation on a theme but would have been more successful with better controls and stimulating sound effects. Every time a piranha bites, a burp-like sound is heard, no doubt from the full tummy of the fish!

Bug Diver is available from Somerset based Galactic Software for the Dragon 32 at £5.50.

● Getting Started	4
● Graphics	4
● Playability	5
● Value	5

LOOKING FOR TOP OF THE KONGS

KONG

If you are after a Kong game for your Christmas stocking you've got a pretty bewildering choice on your hands.

We managed to acquire four Spectrum versions though there must be at least that many again lurking in the small adds columns at the computer mags.

The most disappointing thing about Spectrum Kong, which all the versions we tested have in common, is that Maria has been reduced to a slick man. This detracts from the cuteness of the game — which was a major reason for its success in the arcades.

First up on screen was Blah's Killer Kong with a deluge of barrels which were very difficult to

continued on page 31

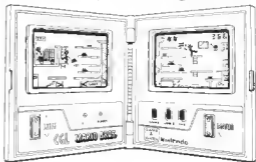
Bottle battle beats Italian brothers.



Crash! Another crate of bottles hits the ground—it's Mario, hero of 'Donkey Kong' and his looney brother Luigi, trying to keep their end up in a highspeed bottling plant. The butter-fingered boys leap from floor to floor as the crates come faster and faster; if they load the truck they get a breather, but one dropped bottle and the foreman runs out yelling... It's up to you to keep them jumping—on both screens at once! As you get better the game gets faster! Can you win the bottle bonus?

'Mario Bros.' is the latest multi-screen adventure from Game and Watch, with two skill levels and (for super ace show-offs), a memory

that keeps your highest score. And there's a quartz clock with alarm. That's why they call it Game & Watch. Catch it at your local shop now. Save the Italian boys from bottling out!



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hop over. This game also has the unfortunate distinction of having the oddest Mario. The little Italian must have had too much vino as he wobbles along in the most ungainly fashion with his feet pointing inwards.

Il Blaby's Killer Kong was a bit too difficult then PSS's Krazy Kong is guilty of being too easy. I hopped my way onto the third screen on my first go — which was satisfying but not very challenging.

Neither Blaby's or PSS's game managed to capture the feel of playing the arcade game and some silly in-lits like an RIP tomb stone which appears in PSS's game every time Mario gets splatted didn't add anything.

Il software houses insist on ripping off ideas from the arcades then they may as well at least try to do accurate copies.

But if these two versions were average at least they were not as bad as C Tech's Krazy Kong which took about half an hour to load, was nothing like Donkey Kong, and had more bugs than a mangy old innogy. Happily there is one reasonably good version available in the shape of Kong from Ocean.

The game is fairly close to the arcade game, strikes just about the right balance in difficulty, and has some useful extras. Most useful of these is a training mode which enables you to choose which screen you want to start on and avoid having to go through screens one or two to get to the level which you have not yet mastered.

So if you are getting a Kong for your Spectrum — and lets face it this game is as obligatory to your collection as a maze game and a shoot 'em up — then Ocean's Kong is C&V G's choice.

Kong can be purchased in most high street software outlets at £9.95.

● Getting Started	8
● Graphics	6
● Value	7
● Playability	7

NOW JAWS BYTES BACK AQUAPLANE

With jaws snapping, the great shark leapt out of the water. Only the quick thinking of the speedboat driver prevented yet



another water skier's death.

You are in control of a speed boat which is taking a water skier out for a joyride. For a while all is plain sailing until you enter an area of uncharted water. Giant pieces of driftwood surround you and to make matters worse — you have to guide both the boat and luckless skier round huge outcrops of rock looming out of the water in your direct path.

Breathing a sigh of relief you burst out of this hazardous area only to find worse ahead.

Fastly a flotilla of yachts and then a series of motor cruisers piloted by thoughtless individuals pilef down on you at collision speeds.

With a flick of the wrist you send the wheel spinning and thinking of you helpless passenger weave and dodge through the yachts, cruisers and yet more rocks.

But you're not out of danger yet, fear wells in your throat when you recognise what can only be shark fins milling through the water towards the water skier.

Can you tow him safely through those snapping jaws?

You have three lives and will lose one if either you or the water skier crashes.

I can understand the speedboat exploding when it hits a rock but it seems a little moonpruns when the water skier explodes as well!

The cruiser's apparently have some special powers as it is possible for them to steam straight through the rocks and come to no harm at all.

There is a high score table at the end of each game and bonus points are scored if you manage to get through each phase without losing a life.

Keyboard controls are easy to master on the Spectrum with 6 and 7 controlling up and down movement and 0 left/right thrust. This is graphically very realistic

as the boat will start to plane as it gathers speed. However, I did find the game very slow to play and found it was fairly easy to reach the fourth phase.

Aquaplane is available from Southampton based Quicksilver for the Spectrum 48k at £9.95.

● Getting Started	7
● Graphics	7
● Playability	4
● Value	5

VERDICT OF THE CHAMP SUPER COBRA

When C&V Games went to Munich to watch Andrew Brzezinski cruise home in the Senior Video Games World Championships we quickly realised that this guy knows a thing or two about a joystick.

We were so impressed that we signed him up on the spot to join the Computer and Video Games elite corps of games reviewers.

This month Andrew casts an expert eye over Super Cobra — Parker Brothers latest arcade clone.

You command a helicopter on flight through hostile enemy terrain — over hills, castles, tall buildings and through caverns towards your goal — a box of money waiting to be picked up.

There are twenty two levels to be flown through each with its own hazards and enemies to be defeated.

The distance you have travelled is shown at the top of the screen by a row of rectangles filled in one by one as you progress.

Armory is in the shape of an unlimited supply of bombs and missiles — though it is impossible to fire these simultaneously as in the arcade version.

Fuel is limited so you will have

to bomb fuel dumps as you go to replenish your supply.

The UFOs were a bit disappointing sitting completely stationary and making dumb noises — though they did become a bit more intelligent further into the game.

One good feature of the game is that it allows you to restart where you left off — rather than flying through all the previous levels — though you will have to suffer the insult of playing at the beginners level to take advantage of this option.

If you succeed in your mission — you are congratulated and then sent back to the beginning with a new life as a bonus.

An interesting game to start with — although it became a bit boring after a while as it does not get progressively more difficult with each new mission.

The game is in the shops now at £29.95 from Parker stockists.

By Andrew Brzezinski — Atari over 18 Video Games World Champion.

● Getting Started	9
● Graphics	8
● Value	7
● Playability	8

PENGO TURNS COW GIRL SALOON SALLY

Weich them cowboys, Me am — as you'll have to keep your wits about you if you don't want four hefty desperados jumping on you.

In the depths of cowboy country, Sally's saloon is being torn about by some mad, bed cow-heads. So involved are they in bashing each other up that they forget about the stolen gold.

continued on page 32



continued from page 31

they've left lying around on the table tops.

In just retribution for the damage being caused, Sally slinks around the room collecting up the stolen gold. However, occasionally a cowboy catches up with Sally in the act of litching his loot and jumps on her in a mad frenzy. Poor Sally — she's only got four lives and she'll lose them if she's not careful.

Sally's one method of dandling herself is by hurling tables and chairs at the baddies, which effectively puts them out of action for a while.

Once she has successfully picked up all the bags of gold you move onto a new screen where the layout of the tables changes.

An ever present jingle plays throughout the game which at first is quite catchy but after about five minutes of play begins to pall. I found it very irritating that there was no on/off option for the sound. However, the sound is effective in that it resembles a honky-tonk piano such as those found in old westerns.

Saloon Sally is based on the original theme of Pango, the arcade game, the idea has been successfully transferred to the Amstrad to the wild west and is very addictive in its own right.

With keyboard control, the game is easy to master and is very playable as there is room for a certain amount of strategy. Clushing all four cowboys at once will earn bonus points and I found that it was possible to trap the odd cowboy by manoeuvring tables round him thus leaving one less nasty to contend with.

Saloon Sally is available from London based Psion from the BBC Model A&B at £7.95.

● Getting Started	5
● Graphics	5
● Playability	5
● Value	7

ARCADIA GETS A ROCKET

ARCADIA

You don't think that converting a smash hit game onto a bigger more powerful machine would prove a cinch.

In practice it's apparently quite the opposite. Spectrum Arcadia is one of Imagine's best games whereas Arcadia for the Commodore 64 is little more than a second rate imitation.

The game follows the theme of the Spectrum version but lacks any of the 'elusive playability' of the original.

The game is set in a galactic war. You're the sole surviving rebel facing the Federation's huge war machine. You control Arcadia, the galaxy's most powerful space craft. Wave after wave of the Empire's forces attack Arcadia, each new onslaught bringing fiercer and more intelligent opponents.

The first attack wave consists of rockets flying over head, which are fairly innocuous apart from dropping the odd bullet.

Progressive levels become more difficult if only because of the sheer numbers of aliens present. Each sheet sees the appearance of a new and exotic alien race, intent on destroying Arcadia for the greater glory of the Empire.

Arcadia 64 is a very average game typical of games produced a year ago but not up to the standard demanded by today's computer owners.

If the program has one redeeming feature it's the choice between a wide range of key layouts one of which is bound to suit them.

Arcadia is for the Commodore 64, one or two players and has a joystick option.

The game is in the shops now or mail order from Imagine software costing £5.50.

● Getting Started	7
● Graphics	6
● Playability	5
● Value	6

NOW RACE THE NASTY RODENTS

RADAR RAT

Eekkk! Watch out a Radar Rat is coming to eat you alive! This is what you must avoid in a new crazy maze chase called Radar Rat Race.

The scene takes place in a gloomy stone block maze where you have been imprisoned by an evil rat invasion force. You play the adventures mouse whose only chance of survival is to gain enough strength and vitality and escape the maze. This can only be accomplished by eating your way through the numerous lumps of cheese kindly planted by an adversary.

Roughly a third (or less) of the here's screen is given over to the four way scrolling graphical maze. To the right of this is a rectangular radar map — similar to arcade Defender — which shows you where the cheese is as well as opposing rats and cats!

The cats don't move, but are sitting in various places around the maze. On the other hand, the rats seem to have a degree of 'official intelligence' as they immediately detect your presence and chase you. You have a fire button you will activate it. Now I don't want to go into that in too much detail. All I will say is

that its foul stench completely obliterates the rats sense of smell — if they are silly enough to stop in it — and they lose you for a while.

These droppings are limited and controlled by a time-factor, displayed at the top of the screen. If however a rat catches you, or you run into a cat, you will lose one of your three lives.

Direction is inevitably controlled by joystick. A speed control is not incorporated. Because of this, when you come to a stone block in the maze, and you're not controlling the mouse, its direction (either left or right) will be decided by the computer.

This effect often interferes with your decision, producing a direction totally unrequested! Frustrating to say the least.

One annoying characteristic of the radar map, is that advancing mice are represented by red dots which are hard to detect.

The constant background sound is pathetic. It plays *Three Blind Mice*, using only one of the three available voices — what an insult to a machine's good sound system!

Once a screen had been completed by eating all the cheese, subsequent screens followed in the same style, with faster action. Apart from the sound and few other irritating aspects, the game is quite exciting and amusing to play.

Radar Rat Race is available from Commodore Electronics for the Commodore 64 at a price of £9.99 (inc. VAT).

● Getting Started	8
● Graphics	6
● Value	7
● Playability	7

WHEN BENGU MEETS THE SNO YETIS

BENGU

Driven wild by the smell of human blood, Bengu is set upon by some murderous Yeb monsters. Can you save a harassed eskimo from a very sticky end?

Set in the frozen wastelands of an arctic icefield, Bengu is trying to get the best of the Sno-Yetis. He has found that the best way of dealing with these hairy nasties is to freeze them.

their direction and squash them.

continued on page 37

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The screen is covered in blocks of ice and is very similar to the arcade game *Pengo*, on which *Bengo* is based.

Our quaking eskimo starts off in the middle of the screen surrounded by Yets and, in a set time limit, must finish them all off before they get him.

It's possible to manoeuvre blocks of ice around a Yeti and trip him. This makes it much easier to squash him, however you've got to be quick as the Yeti can melt the ice and escape!

There are nine difficulty levels and on the ninth life is fraught with danger as the pace becomes very hectic with Yetis and ice blocks whizzing round the screen.

I did find *Bengo* somewhat repulsive as the game didn't change in the various levels other than the addition of extra Yetis moving around at a greater speed. However, graphically and with its fast action, it is one of the better games for the unexpanded Vc-20 and is available from Manchester-based Mr Micro at £6.95.

● Getting Started	6
● Graphics	8
● Value	5
● Playability	5

REVENGE OF THE MUTANT MICRO-CHIPS

TRANSISTOR

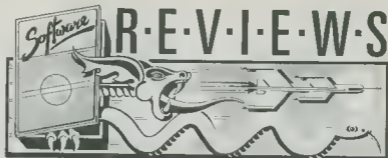
Revelation is brewed inside the BBC micro. The printed circuit has become a battle field as the CPU comes under attack.

The computer's components have become jealous of the CPU's power and authority and are moving down the tracks in an attempt to destroy it.

Your aim is to protect the 6502 from the rogue resistors and capacitors by firing pulses of electricity along the circuit wires.

The display shows the silicon chip in the centre of the screen with eight wires leading from it, criss-crossing over the screen.

Each wire has fifty components attacking the chip. If you become helplessly overwhelmed you can press the panic button



which destroys all the components on the wires. This can't be used regularly because once used, it takes 20 seconds before the "smart bomb" is re-aimed.

Bonus points can be picked up by shooting one of four tools that appear around the edge of the printed circuit board. *Transistors Revenge*, requires quick reflexes and a lot of tactical thinking. Not since *Planetoids* have I been so impressed with a BBC game. I am sure this game will soon rank along side *Planetoids* as a classic BBC program.

The game is very well written. After each game is finished the program gives you the option to start a new game from where you left off. It also allows you to freeze a game while you nip into the kitchen and grab something to eat.

Transistor's Revenge has to get my vote as the best BBC game of the year! *Transistor's Revenge* is available from South-end based Softspot.

● Getting Started	8
● Graphics	9
● Playability	8
● Value	10

WHO DARES MIGHT WIN

S.A.S.

Maybe it's because I'm a spineless, cowardly eight stone wackhead that I can't get to grips with Peaksoft's game, *S.A.S.*

A more likely explanation is that it is a totally unplayable game.

S.A.S. is an army training simulation. You're the sole surviving member of an elite *S.A.S.* squad dropped behind enemy lines on an undercover mission to destroy the enemy's nerve centre.

First you must negotiate a mine field with the help of a stolen detector and a limited supply of hand grenades, while avoiding the scouting helicopter gun ships.

The game starts by asking you if you wish to have a briefing. I wish I hadn't.

Every single letter is printed individually and each screen takes several minutes to be filled. Even so *S.A.S.* had me pulling on my neck beads and plastering my face with camouflage makeup in anticipation. The game promised startling hi-res graphics, armed patrols and night forays into enemy controlled areas.

But promises are made to be broken. The only sterling thing about the graphics is their low quality. It's difficult to distinguish between a helicopter and an armed foot patrol.

I find it hard to believe the courage of some software companies (Peaksoft is a particularly good example) who try to palm off sub-standard games written in Basic on an unsuspecting public.

Who Dares Wins is an apt motto for Peaksoft but I hope the public votes this one a loser.

● Getting Started	4
● Graphics	4
● Playability	3
● Value	5

SPACE BATTLES WITH THE CYLONS...

CYLON ATTACK

A space-ship control panel featuring shields and lasers may sound reminiscent of *Star Trek*

but in *Cylon Attack* you command a freighter not the powerful USS Enterprise.

The place of the Klingons is taken by Cylons and you take the part of a 21st century cargo ship captain. Your ship has been commandeered by Earth's defence ministry to transport supplies and munitions to remote planets at the fringe of the Terran Empire.

You have refused to leave your ship and have volunteered to pilot the freighter on its hazardous journey through the war-torn galaxy.

The cockpit display shows the condition of your shields, laser banks, the direction of your ship and a radar scanner showing the position of the oncoming Cylons. The first wave of aliens takes the form of *Star Wars*-type craft and trifurcated space invaders.

From here on, the going gets tough, as the freighter's only means of defence is a single laser cannon to be fired, when a Cylon ship has entered the gun sights in the centre of the scanner.

Cylon reinforcements are drafted in for the second attack wave, and are faster and more accurate than their earlier comrades.

The graphics are good if a little flickery at times. The ship's instruments are clearly shown and highly colourful. The game offers two different key layouts and a joystick option.

My only real criticism is that the game is far too noisy and the sound effects and explosions will soon have you cringing.

Cylon Attack is for the BBC Model B and is manufactured by the Manchester company A&F Software for £8.00.

● Getting Started	8
● Graphics	7
● Playability	7
● Value	6

AGF PROGRAMMABLE JOYSTICK INTERFACE for Spectrum or ZX81

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ABOUT OUR INTERFACE

The AGF Programmable Joystick Interface is a unique design offering the use of any Atari compatible joystick with absolutely all software, whether it is a cassette or ROM cartridge, with the Spectrum or ZX81.

The hardware programmable interface requires no additional software and meticulously replicates the keys of the computer in a manner which is responsive to absolutely all key reading methods, both BASIC and Machine code.

The interface does not interfere with key operation and can therefore be used simultaneously with the keyboard.

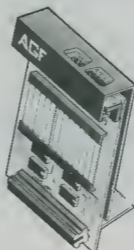
There is no need to remove the interface and fitted as the rear extension connector will accommodate further expansion, i.e. platters or RAM packs etc. This important feature avoids excessive wear in the expansion port.

The key replication principle pioneered by AGF means that your own programs can use right directional joystick movement by using simple key reading BASIC.

Two joystick sockets are provided which share the same keys, for use with the majority of two player games. Several interfaces may be used on the same computer for multiple joystick applications.

The interface is programmed by a two digit code, which is looked up on a programming chart supplied, for each direction and firing button. The two numbers are then selected on a pair of leads which are clipped into appropriately numbered slots on the interface.

Once unfringed this can be marked on a Quick Reference Programming Card and fitting using the game. As the programming is not power dependent the interface retains the last configuration made and can be immediately used when next switched on.



KEY FEATURES

- Programmable design gives TOTAL software support.
- Accepts Atari Tomestellin Pro, Wolfenstein, Quick Shot, Le Stick etc.
- Rear extension connector fits all other add-ons.
- Free demo program and instructions.

PACKAGE CONTENTS SUPPLIED

- Programmable Interface Module as illustrated complete with clip-on programming leads.
- Self adhesive programming chart detailing how to define which key is simulated by UP, DOWN, LEFT, RIGHT, and FIRE. This can be fixed in the case of your computer as if preferred the protective backing can be left on. The chart is made of a very durable reverse printed plastic and is extremely easy to read.
- One pack of ten Quick Reference Programming Cards for at a glance setting to your games requirements. The card allows you to mark the configuration in an easy to read fashion with space to record the software title and company name.
- Video Graffiti demonstration program which is written initially in BASIC to demonstrate how all eight directions and fire can be read. This is also a useful high resolution drawing program.
- 12 months guarantee and full written instructions.

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DEALER ENQUIRIES WELCOME		EXPORT PRICES ON APPLICATION	
		FINAL TOTAL	

MORE PROFESSIONAL BUGS!

Yet again, I've heard of more bugs appearing in so-called professional software. It may be that a single batch of these cassettes are faulty, or perhaps there really is a bug in the sequel to Ultimate's Jetpac for the Spectrum.

Lunar Jetman, as the program is called, has been causing problems for Karl Barratt of Cardiff. He has managed to get to the missile station with the gun fixed on the Moon Rover. When he fired at the missile going to earth, the screen blanked and the computer NEWed itself. He says that this happened four times in a row. If anyone else has had this problem, I'd like to know about it. Meanwhile, Karl, I suggest that you take Ultimate up on their offer to replace any faulty tapes.

Going back to the bug in Jetpac, Darren Scott from Corby, Northants thinks that he's found another!

If you play a 2-player game and play-er 2 beats the existing high-score, his score will not become the new high score. Has anyone else had this problem? If you have, then let me know.

KILLER BUG

I've also heard of a possible bug in Program Power's Killer Gorilla for the BBC. Matthew Fidell writes from Taunton in Somerset that the program has a nasty habit of placing a new screen on top of the old one! You can play on for a moment, before the game crashes completely. Has this happened to you?

VIC TIP

VIC owners should find this routine quite handy. It will stop anyone from breaking into a Basic program once it is running.

When you press RUN/STOP the computer starts a machine code program whose starting address is in locations 770 and 771. If you change the contents of these locations to the machine code which is executed when the machine is first turned on, then when someone presses RUN/STOP the machine will think that it has just been switched on and will clear all its memory.

To change the addresses, just type POKE 770,34 POKE 771,253 and now try breaking in to your program. Remember to save anything on tape first, as it will be lost forever once you type RUN.

You can return the machine to normal by POKE 770,131:POKE 771,196. Thanks go to Nicholas Cole of Selby for this.

DRAGON INTO TANDY WILL GO

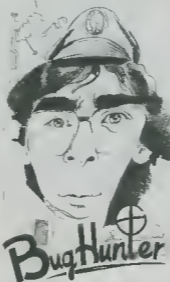
For everyone who's always asked why we don't publish many TRS 80 listings, here's a way of adapting some Dragon programs from previous issues for the Tandy Colour Computer.

When the Dragon PEEK's locations 341-344 it looks for a value of 233 to register an arrow key. The TRS 80, though, uses 247.

You can alter Fox and Hounds from August's issue to run on a Tandy Colour computer by changing lines 630 to 636. Change the 233 in the brackets to a 247. Thanks go to D. Healey for this. (No not that D. Healey.)

SPEC-SCROLL

Paul Jennison of Hull sent me a useful tip for Spectrum owners. Although there is no command in Basic to scroll the



Write to me at Bug Hunter,
Computer and Video Games,
Dunstant House, 8 Herbed Hill,
London, EC1R 5EJ. Or phone
Me on 01-278-3881.

screen up by one line, such a routine does exist in the ROM. Simply type LET L=USR(3280) and the contents of the screen will be scrolled upwards by one character.

UNBREAKABLE SPECTRUM

Robert Burgess writes to me from Rotherham on some wonderful notepaper with that Bear named after a railway station smiling in the corner. (Haven't you heard of Liverpool Street Bear?)

If you want to protect your Spectrum Basic programs from being copied, try this, which will put a REM at line 0 which cannot be erased. You could put

your name here, perhaps.

Decide on your REM line and type it in as line 1. Then enter: POKE (PEEK(23635)+256)*PEEK(23636)+1,0 and the line will change from 1 to 0. Try deleting it! And remember, keep eating the marmalade sandwiches.

MOON GUARD UPSIDE DOWN

Going back to our 3D issue from October, Peter and Ans Ellis sent me this suggestion for Moonguard for the BBC model B.

With their monitor, they found that the 3D effect was easier to see if the screen was inverted. To do this, alter the program as follows. Firstly, swap lines 430 and 450.

Then, alter 2450 to 2610 to read:

```
2450 VDU 19,0,0,0,0,0
2470 VDU 19,1,4,0,0,0
2480 VDU 19,2,1,0,0,0
2490 VDU 19,3,0,0,0,0
2500 VDU 19,4,4,0,0,0
2510 VDU 19,5,4,0,0,0
2520 VDU 19,6,0,0,0,0
2530 VDU 19,7,0,0,0,0
2540 VDU 19,8,1,0,0,0
2550 VDU 19,9,0,0,0,0
2560 VDU 19,10,1,0,0,0
2570 VDU 19,11,0,0,0,0
2580 VDU 19,12,0,0,0,0
2590 VDU 19,13,0,0,0,0
2600 VDU 19,14,0,0,0,0
2610 VDU 19,15,0,0,0,0
```

SPECTRUM MEMORY COUNTER

Kai Weber from Reading sent the following hints for Spectrum users. If you're writing a program and want to know how much memory you have left, then you can use the FRE command on most Basic machines. However, the Spectrum lacks such a facility from Basic.

But the machine must need such a function in its ROM to see whether or not a program line will fit.

The code does exist, and you can find out how much memory is left by typing PRINT 65635:USR 7962

Also, says Mr. Weber, it can be troublesome having to pull out the plug to reset the machine. This normally has to be done if there is graphics or machine code stored above RAMTOP, the parts of memory where CLEAR cannot reach. Typing PRINT USR 0 will do the same job, clearing the whole of RAM.

WHOOOPS THE TI JINX STRIKES AGAIN!

A couple of lines were left out of the instructions for the 3D maze game for the Texas TI99/4a in the yearbook.

Firstly, the game needs an Extended Basic cartridge to run. Also, we didn't explain how to get the black graphic character which is used to make the maze. It is created in line 14 to 27, and is a CTRL-COMMA

BY ROBERT SCHIFREEN

HOT SHOT'S PRICE BEATERS

A new range of no less than 24 VCS titles have just been imported from Germany at the knock-down price of £8.95.

The Hot Shot range is manufactured by Goliath Electronics of West Germany.

Some of the highlights of the range are Pac Kong a hybrid of the famous maze game and climbing game. You have to get a harassed construction worker up to the top of a building without being thrown off by an angry

mob of bricklayers.

Dream Flight is said to be the toughest of the range in which a nightmare becomes reality. As you fly your helicopter back to base, you come up against a swarm of flying demons heading straight towards your cockpit.

Organized crime comes to video games with Mafia. In this game, you play the part of a warder who is trying to prevent a break out of some of the most dangerous gangsters.

There are several space shoot-'em-ups in the range, with titles like Astro Attack, Space Eagle, Space Rider, Time Race, Space Robot, Galactic and Black Hole.

If cute games are more to your liking than you might try Tom Boy Felix's Return, Squirrel & Snail and Forest.

The Hot Shot range should cause quite a stir in the video games business selling at less than a quarter of the price of Atari's and Activision's top of the range games.

The only unknown factor is the quality of the games — and you'll just have to wait until the Joystock Jury passes its verdict to find that out.

Also making a guest appearance on an Atari cartridge early in the new year will be the delectable Miss Piggy who has taken time out from the Muppets to star in her own game.

Atari are not saying what other Muppets will be hot co stars but let's say the lovely lady is attempting to get a certain other character up the aisle.

Cartoon games are a new departure for Atari. Two other characters due to make an early appearance on cartridge in 1984 are Snoopy and that incorrigible Roman soldier Asterix.

ATARI GAMES

The Colecovision Atari cartridge converter is now on sale.

The add-on enables Colecovision owners to play Atari VCS games on their new system.

The box should particularly appeal to people who already own a VCS but want to upgrade to a Colecovision.

They can now do this without making redundant their existing collection of games.

The converter is available from Silica Shops and most Coleco stockists at £59.00.

YEAR OF THE TIGER

The entire Tigervision range is now available in the UK.

After a wrangle as to who the main importer would be, the new London-based distributor — Prism, are bringing the games into the country.

The best known game in the range is Minei 2049 or which is up before the court in Joystock Jury this month.

Also in the range is Jawbreaker — a gobbling maze game where a peon of false teeth go to work on the candies and chocolate bars in a sweet factory.

If you are sweet enough, you may decide to try your joystick at Marauder where you have to get through six mazes to recover the cosmic treasure. Watch out for the robots — they've got different plans for the glittery stuff.

Also in the range is Tigervision's answer to Donkey Kong in

the shape of King Kong, which lectures the sky scraper and giant ape of the famous film.

Threshold is a classic space shoot-'em-up with up to 10 different space enemies waiting to attack your ship.

The games are in the shops now or available by mail order from Prism at £21.95 for Jawbreaker, Marauder, Threshold, and King Kong. Miner 2049'er is slightly dearer at £27.95.

MOON BUGGY

Moon Buggy is the latest arcade clone being offered by Atari for the VCS.

The arcade conversions are coming thick and fast as Atari seem to be concentrating on this type of game rather than releasing original projects.

Moon Buggy was a minor hit in the arcades and is still claiming top pieces in several of the country's arcades.

The game combines elements of Scramble and Donkey Kong — you scroll from left to right along a lunar landscape. Push the joystick forward to make the buggy jump over craters and crevices.

You are armed with a laser gun which can fire simultaneously in two directions. Useful when you are attacked from the skies and have to blast an obstacle out of your path as you travel.

Points are awarded for hopping over craters and mines and blasting the UFOs as well as the tanks that march towards you in the later stages of the game.

Moon Patrol will be in the shops at the end of December and early January at £29.99.

TOP TEN

1	Pole Position	Atari
2	Dig-Dug	Atari
3	Enduro	Activision
4	Battle Zone	Atari
5	Phoenix	Atari
6	River Raid	Activision
7	Donkey Kong	cs
8	Zaxxon	cs
9	Tutenkham	Parker Bros
10	Robot Tank	Activision

ecoVision and the Vectrex.

The tapes give detailed strategies for each game they deal with, and include slow motion blow by blow breakdowns of how to deal with nasty aliens or tricky ghosts. A narrator explains each move — giving hints on how to get maximum bonus points and even exploit bugs in programs to get those high scores!

Each tape lasts for 60 minutes and will be available to the video dealers at £19, £39 for all three. We hope to bring you more detailed reviews of each tape in future issue. But in the meantime why not check out your local video library to see if they have the tape in yet! And watch out for a special video contest next issue!

THE FORCE IN STORE!

"May the Force be with you!" — and you'll need it if you bump into Darth Vader whilst doing your Christmas shopping.

Lord Vader will be appearing in Hamleys and Harrods to promote Peiker Brothers Star Wars games during Xmas week.

With only a handful of authentic Darth Vader costumes in the country, Parker have managed to obtain two of them courtesy of Lucas Films, the makers of the epic Star Wars Movies.

GAMES TIPS ON VIDEO

Here's yet another use for your crowded TV screen! Tips on video games on a video-tape. Polygram Video is releasing three tapes collectively called *How to Beat Home Video Games*.

Tepe one is called *The Best Games* and features hints, tips and strategies for games on the Atari VCS system, including *Demon Attack*, *Yers Ravens*, *Chopper Command*, *Frogger*, *Pac-Man*, *Donkey Kong*. Twenty games are featured on this first tape.

Volume two brings you *The Hot New Games* including *ET* and *Raiders of the Lost Ark*, while volume three looks at the "super systems", including the Col-



TRY TO NAME THAT GAME

If you don't think Santa will bring you a video game system for Christmas then here's your chance to win one and get a Turbo Driving Module into the bargain.

Celecovision have really taken the season of goodwill to heart and given us three of their games systems regarded as featuring some of the best graphics around, with Donkey Kong cartridge and Turbo Drive Module thrown in.

All you have to do is answer the questions under each of the pictures of Celecovision games.

Then rush your answers — on a postcard please — to Computer and Video Games Celecovision Contest, Durrant House, 8 Herbel Hill, London EC1R 5EJ.

Entries cannot be handed in or delivered personally and the usual Computer and Video Games competition rules apply. Closing date is January 16th.



1) Name the Game?



2) Who makes the arcade version of this game?



3) Which screen is the player on One, Two, Three?



4) Is this game called (a) Son of Kong, (b) Donkey Kong Jr., (c) Donkey Kong Part II?

Professor Video's good high score guide.

We are pleased to be able to bring you a monthly column by the distinguished professor — holder of the Nobel prize for Alien Busting, Maze Dwellers Award for Fruit Gobbling and author of many books including the best selling, How to Knock the Living Daylights Out of Nasty Little Aliens.

In his opening column he turns his attentions to the smash hit game Pac Man. His advice and strategy tips are based on the Atari VCS version — and are not always relevant to the arcades, Alan 400/800, and other home versions of the game.

Patterns are the key to consistent high scores in Pac Man. Unfortunately though — there is not one super-pattern that will suit everybody, or every screen in the game. The best advice is to practise the pattern that

dots, in order to eat them. This is particularly important when reversing or changing direction — as you don't want to look back at a dot, which you think you have eaten, to find it still there.

Try to avoid eating the energising pills unless you are really in a tight spot or are sure you can extract maximum points from doing so.

When you become really proficient you should aim at leaving the board with all the power pills with one wafer adjacent to each so that you can tempt the ghost into a trap.

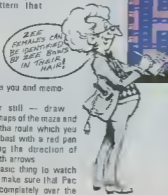
Make use of the tunnels — very often the ghosts will not pursue you through them.

Use them to plan your movement around the board — don't look upon them as merely emergency exits for when the going gets rough.

Good Pac play requires precision timing and strategy. It is not sufficient to know the correct patterns, you must also make your turns at just the right second and anticipate the movements of the ghosts caused by your moves.

One of the toughest rules of Pac Man that it is important to grasp is to learn to relax. VCS joysticks are not the most responsive sticks ever invented so don't wrench and pull, it only puts you off balance, makes the stick even worse, and upsets your concentration.

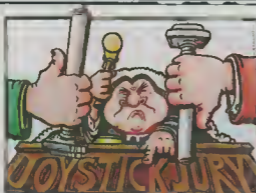
Professor Video wants your tips. In his search for perfection at all games the prof is grateful to any readers who can send in tips, or interesting discoveries they have made whilst playing video games. We have bags of bug badges and C&VG yearbooks to give away for published tips. Mark all letters for the attention of the Professor at our Herbel Hill address.



best suits you and memorise it.

Better still — draw several maps of the maze and draw in the route which you find the best with a red pen indicating the direction of travel with arrows.

One basic thing to watch for is to make sure that Pac Man is completely over the



ROBOT IN BATTLEZONE

Activision has a happy knack of producing the right games for the VCS at the right times.

It wasn't coincidence that Pitfall Hairy was on sale while *Raiders of the Lost Ark* topped the cinema charts. And it isn't surprising to find that the company's version of arcade hit *Battle Zone* has almost beaten Atari's own to the high street stores.

Of course it has to go out under an assumed name, *Robot Tank* and it does include a few new features — but for once it's the Atari version which gets the jury's vote.

The original game (from Atari's arcade division) played on the duel of wits which took place between the computer-controlled tanks and the player's. Only by carefully outmanoeuvring an opposing tank could you be sure of getting in that all important first shot.

Activision is guilty of adding too much to a simple formula which worked well enough. *Robot Tank* utilises the Enduro skyline to give the game a day

and night sequence. There is an addition of weather problems, snow, rain, fog or some of the opponent's fire can knock out vital parts of the tank's weaponry.

It all sounds as though it ought to improve the game, sadly it makes the whole thing a lottery compared to the the Atari version.

The scenario behind the game explains that renegade robotic tanks are threatening to destroy San Francisco. You must command all loyal robotic tanks to defeat the enemy.

Control is helped by a radar screen which shows up a tell-tale blip — an enemy tank. There

is a video screen with sights in the centre for looking forwards onto a colourful landscape. The damage sensors show V.R.T.C. which stand for: video, intermittent loss of picture, radar, becomes inoperative; tracks, mobility is brought to a crawl, cannons, cannot rely on them firing.

Cannon fire can be guided onto the target. During nightfall only video and the flash of an opponent's firing gun give clues to his position. And each different weather condition presents its own problems. *Robot Tank* costs £29.95.

THE VERDICT

Good graphics but the game doesn't measure up to the addition generated by the Atari version.

- | | |
|------------|-------|
| ● Action | ▲ ▲ |
| ● Graphics | ▲ ▲ ▲ |
| ● Addition | ▲ ▲ ▲ |
| ● Theme | ▲ ▲ ▲ |

SAVE ME POPEYE!

Oh you landlubbers clap your eyes on this review all about my lady love — Olive, that no good slob Brutus and yours truly Ordinary Seaman Popeye.

First thing I notice is me davin Olive shouting for help at the top of the stairs — where this big bully Brutus is trying to keep her prisoner. So I reaches for me spinach but that snivelling See Hag pal of Brutus keeps mavin it.

You can help Popeye save Olive in this latest home version of Nintendo's hit arcade game.

To complete the first screen Popeye has to catch all the hearts that Olive is throwing down — without letting Brutus catch him.

If you manage to grab your spinach you can punch Brutus into the middle of next week but — take care as the green stuff is in short supply.

When all the hearts have been caught screen two appears with Olive trapped at the top of a building. This time she is showering her true love with musical notes. Run up and down the ladders and along the platforms to catch them in the shortest time.

To make things even more difficult there is an ugly green monster — affectionately known as the Sea Hag — who keeps



ROBOT TANK



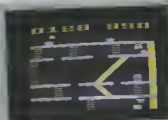
POPEYE



BEDLAM



VENTURE



BOUNTY BOB



topping empty beer bottles at you. If one of these makes contact it's curtains for you and Brutus for Olive so you have to dodge 'em or punch 'em to stay in the game.

Screen three's going to take all the spinach you hero can get and, as the advertisements for the game say, "I doesn't suggest ya tuss it if ya eat's yer spinach in a quiche." This is the toughest challenge in the game — with moving platforms, several flying beer bottles and a big black bird which can knock you off the platforms.

To rescue Olive on this final screen you have to catch the letters making up her desperate message — Help.

This is a most accurate copy of the amusing excruc which I would place in the top ten games available for Colecovision.

With O'bert and now Popeye it looks as if Parker Brothers are really going to excel themselves on the Colecovision in a way they have not so far achieved on the other machines. £29.95 from Parker stockists.

THE VERDICT

Best game for Colecovision so far.

- Action
- Graphics
- Addition
- Theme

VECTREX BEDLAM

Bedlam is the latest shoot 'em up for the new Vectrex all in one games system.

Does it need another shoot 'em up was my first thought. With Web Wars and Fortress of Nerzod just released and at least a half a dozen others in the existing range a different type of game would have added greater variety to the range.

The game itself doesn't quite come off. Your ship is trapped in a diamond shaped space. Nasties are coming at you from the corners and you have to rotate and shoot to stop them colliding with you.

When the aliens stop coming a new pattern appears with more spikes and faster aliens.

There are three game play options. As well as the basic game you can also add complicating factors like making the shape rotate left and right and also making it shrink towards you ship.

When the game gets really hectic you also have one smart bomb which you use to wipe out all the nasties on screen at that particular moment.

The game would be immeasurably improved if you could move your ship instead of merely being able to rotate.

This is not one of the better games for the Vectrex.

It would be nice to see a bit more variety in the range of games for the Vectrex — an adventure game or strategy challenge would be better.

THE VERDICT

If you want a new shoot 'em up for your Vectrex I would recommend Web Wars or Fortress of Nerzod in preference to Bedlam any day of the week.

- Action
- Graphics
- Addition
- Theme

SURPRISE U.S. HIT!

One of the big surprises when the Colecovision went on sale in the US last year was the immediate success of Venture.

CBS had forked out literally millions of dollars to buy the rights to his arcade games like Zaxxon and Donkey Kong and yet, on-selling them all was Exidy's minor arcade success.

The good news for Intellivision owners is that the game is now available for the master computer.

This game must rate as one of the cleanest conversions I have come across from one system to another, which bodes well for Intellivision owners if Coleco decide to convert more from their exciting range of titles.

Almost every detail is exact — from graphics to sound effects.

The game is quite similar to Atari's Bezork — though much more fun with lots of extra

features to keep you guessing.

You play the part of Winky who searches several monster-inhabited chambers for treasure.

Aimed with his trusty bow Winky can pick up bonus points by killing the monsters who are trying to stop him from getting the treasure.

Once the treasure has been bagged our hero must make a hasty exit — back to the hallway.

Then he can move on to a new room and continue his search for more treasure.

When the treasure has been taken from all the rooms Winky goes onto a new level where the nasties are even nastier though the treasure is much more valuable.

The bounty from each successfully completed mission is displayed on an intam screen with question marks representing that which remains in possession of the chamber monsters.

This gives the game that addictive touch. You want to see all those treasures displayed on Winky's screen!

One slight disappointment with Venture is that when you complete the fourth chamber you go back again to the first. Although the challenge of finding the extra treasure and solving the riddle is not impaired, it would have been better to get a new chamber every time.

The graphics in Venture are not stunning, but they are adequate, and the game does not suffer as a result.

It's nice to see some good quality games for Intellivision in the CBS range and this is certainly one of the best.

Venture is a thoroughly absorbing game. You will need to move swiftly, plan your direction carefully, and keep a speedy finger on the fire button to succeed.

Its multi-level challenge provides a constant incentive to get further into the game.

Venture is manufactured by C.B.S. and is in the shops now at £29.95.

THE VERDICT

Superior to many of the games in Mettel's own range.

- Action
- Graphics
- Addition
- Theme

CLAIM THIS GAME . . .

Bounty Bob is the hero of Tigervision's smash-hit climbing game — Miner 2049er.

The scenario has our hero mining a radio active mine in the year 2049. It's version of the game popular among Atari micro owners and was a big hit in the States. It currently stands at number six in our computer charts.

You must help him stake his claim in each of the three mines which are represented as different screens in the game.

In order to claim a mine, Bob has to walk along all the platforms collecting them in as few walks.

To make things more difficult the mines are inhabited by mutant organisms who exist on a diet of prospectors. Also scattered throughout the mines are certain articles left behind by earlier prospectors. These can be picked up to score bonus points and also enable you to kill the organisms (Pacman-like) by making contact with them for a few brief seconds.

Each mine has two disused shafts which can be used to slide down by our hero but check first to make sure they are not mutants lurking at the bottom.

I found the game fun and playable but annoyingly slow. Bob's response to the joystick was extremely sluggish. I tested the game with three different joysticks and found the same lack of response.

Minor shows one criticism with all climbing games and that is that once you have mastered a screen there is no much challenge left in the game for you. In an attempt to give the game a more lasting challenge Tigervision have added a clock so that players can race each other to claim the mine.

An above average climbing game and certainly better than the top-selling Donkey Kong £27.95 from London-based Prim.



THE VERDICT

One of the better climbing games for the VCS.

- Action
- Graphics
- Addition
- Theme

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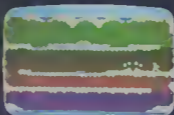
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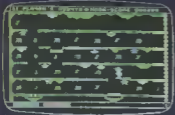
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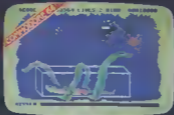
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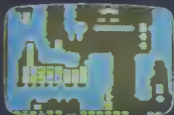
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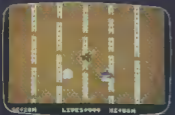


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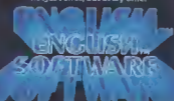
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through the cold morning mist one weekend in November figures could be seen carrying a strange array of pinball machines from all eras into the Old Whighams Rugby Club.

The reason for this odd gathering was the 1983 Pinball Owners' Association convention held in the club room, near Croydon. Association members came from far and wide to the convention — one Dutch member made the Channel crossing.

During the morning the many and varied machines were set up, finely tuned and last minute adjustments made. The afternoon was spent in fierce competition on three machines as everyone attempted to get high scores to get into the Pinball Wizard line! — which was battled out on a brand new Bally Goldball loaned for the event by Ruffer and Death.

Eventual winner was Stafford Meadowcroft from Manchester. Stafford took home the Pinball Wizard silver trophy — donated by Coin Slot, the arcade trade magazine. He also received a tankard donated by Bally/Midway of Chicago. Jimmy Walters of London won the prize for the best restored machine that with his Recel Torpedo dating back to the 1960s.

Pinballs on display at the convention covered the entire history of pins, from the purely mechanical machines of the 1930s to the latest pins pecked with microchip wizardry.

Gery Boker of Bromley brought along two classic machines, Bally's Wizard and Fireball. The latter must have the best artwork ever seen on a pinball machine. Gery's Wizard also won the vote for the most popular machine at the convention.

Thanks to PGA member Keith Temple for this report on the convention.

OUR BOFFIN IN SPACE!

TIPS ON STARGATE

Last issue we asked for readers' tips on their favourite arcade machines. First out of our Mailbag pile was Ian Boffin from Woking, who wrote to us about Stargate by Williams, the Defender people. Don't forget we'd like to hear from you if you've got hints for the rest of us still struggling to beat that hi-score! Now, over to Ian...

Before tackling Stargate, it is very helpful to be good at Defender. All the normal set enemies are there, with eight new ones, all requiring a different strategy.

The first screen is very similar to the original screen of Defender but also with two Dynamoses which release Hums, and the dodging Firebombers.

The second screen is very much like the first, but with the Firebombers shooting fast and small Fireballs on a difficult curving trajectory. Also, there are the small and speedy Yllabian Space Guppies which are a joy to watch and shoot.

In the third screen the Pods arrive with a new style. They do not all start off floating near your ship, but fly around until they intersect somewhere over the planet. Then they can be smart-bombed, usually leaving no Swimmers at all!

The fourth screen is the same but with four Pods and the usual speed increase. Every 5th and 10th wave, the difference is really noticeable. The 5th wave is an Yllabian Dogfight, where you are in space purely with Space Guppies, a few Dynamoses and Swimmers.

Wave 10 is rarely achieved by most people, but it is a Fireball Challenge, which requires a lot of luck and about three Smart-bombs. Then it returns to the new planets.

All the new enemies need new methods for shooting Firebombs as by far the worst because they dodge your bullets. When near one, fly above it so it can't get you with a Fireball and fire constantly, and it should walk into your bullets eventually.

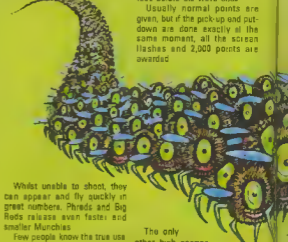
Hums and Dynamoses are easily destroyed but just be careful of stray Hums.

The last three new enemies are the Phred, Big Red and the Munchies. These come at the same time as Baders.

points, but now collecting two gets 1,000 for the second pick-up and so on until a fourth Humanoid underneath you scores 2,000 points.

One trick very few people know is that, if you have a Lander which picks up a Humanoid as the last enemy in a wave, once the Lander is shot you must get the Humanoid back to the surface before the wave ends.

Usually normal points are given, but if the pick-up and put-down are done exactly at the same moment, all the screen flashes and 2,000 points are awarded.



Whilst unable to shoot, they can appear and fly quickly in great numbers. Phreds and Big Reds release even faster and smaller Munchies.

Few people know the true use of the "invisible" button. The only time a good player uses it is when a group of Mutants are on screen. When this happens, as in space after losing a planet, it is advisable to stop thrusting and sit still with the "invisible" pressed. All the Mutants will walk into the "invisible" and blow up.

The main points now come from Humanoid pick-ups. As in Defender, a pick-up is worth 500

The only other high scoring method is the art of following a Pod to an intersection and Smart-bombing all four.

For a beginner, I would hunt around for a game with five lives, a lot of "invisible" and with any luck set on a skill level of around 2 or 3 which is hard in itself!!

FIGHTING THE THIRD WAR

M.A.C.H. 3

You are miles above the earth in your F15 fighter jet when World War III is announced. Striking through the sky you speed to defend your country.

M.A.C.H. 3 is part of the Military Air Command Hunter Force which is in a constant state of alert ready to strike as soon as there is an indication of international war.

Descending to attack you hear a voice, "Take out the bridge" and with screaming engines you dive into a barrage of anti-aircraft fire before dropping your bombs on target. Other instructions will be heard throughout



TIPS FOR RACE ACES

Racing games are guaranteed to set the adrenalin coursing through your veins, until that frustrating crash, that is.

And so here are a few tips on Pole Position to keep you on the right track from Nolan Rignell, C&VG's Arcade Champ.

Pole Position gives the player a chance to get used to the crowd in a qualifying lap. The faster you go, the higher your grid placing in the race, so always aim for 73 seconds or faster, otherwise you won't qualify.

POLE POSITION

Change to high gear at about 90mph if the top speed is 195mph or about 120/130mph if the top speed is 225/250mph. Be prepared to drive like a maniac!

The first right-hand bend is a few seconds after the arrow sign and presents no problems. Move to the outside at top speed and out across very sharply. You might skid, so counter-steer and you'll remain on the track. On the second lap and thereafter, you'll find other cars on the bend, so to dodge them move to the inside of the track near the bend and out across the grass overtaking cars on the inside and move back onto the track quickly.

Announced by the arrowed sign is the hair-pin with the infamous 'centraps' sign. This sharp left bend needs quick reactions to survive and still come out with a good speed. If there are one or two cars on the bend, don't change gear but move to the outside of the track and jerk the steering wheel left and then quickly counter-steer to dodge the cars on the inside lane.

If there are more than two cars on the back keep in high gear, move to the inside and take a short cut across the grass. Get back onto the track quickly otherwise you'll lose speed and be retrained from behind.

In the U.S.

With its great sound, graphics and herd and fast action, M.A.C.H. 3 should appeal to anyone who is a shoot-'em-down addict.



To get a good grid placing, don't bother to change gear once you're in top, only change down in emergencies. Once at the starting post make sure your foot's on the accelerator and the gear is in low to get off to a really good start.

the game warning of an impending attack and which military installations to hit.

All your skills will be called to the fore in some daring low-level flying as you follow the contours of the land towards your next target.

Oil refineries, airports and other strategic bases have to be destroyed, which is no easy task — you'll find yourself under attack from surface to air missiles guaranteed to bring anyone less than a professional down in flames. To survive you can either blast them out of the sky or try to outrun them.

M.A.C.H. 3 is one of the new breed of lesser disc games complete with genuine footage superimposed with computer graphics — the film's background was shot by a stuntman



The next obstacle is a long bend — try to keep to the inside of the track but if necessary move to the outside to dodge other cars. The end of this bend is deceptively sharp and you might skid off the track or go into the back of a slow car if you're not careful.

The last lap of the lap is straight. Be prepared to dodge the cars which enjoy lane shifting especially towards the finishing post — it's most infuriating to see your car written off within sight of the finishing post and a record time.

A few other tips might help — watch the puddles and try to

dodge them as they'll slow you down by 10mph. Try not to skid too much as this will also slow you down as does going onto the grass and driving on the red and white border of the track.

Handling is most important so steer smoothly and fluently and try not to jerk the wheel unless it is absolutely necessary. Always think ahead and gauge what other cars are doing — red and white cars have a tendency towards erratic driving, especially slowing down. And the orange ones tend to speed up when you're about to overtake them.

Finally, try your own tricks and tactics which will ease your race. Happy Racing.

FLIGHT INTO FANTASY

Interstellar is one of the first lesser disc games to feature computerised graphics.

This helps the background pictures to tie in more closely with the computer graphic crafts which the player controls.

But the visual effects are none-the-less stunning compared to the usual pixel-based graphics of the pre-lesser disc games.

It's a far cry from those original green meenies in early shoot-'em-ups. Gone are the days when you had to stand for hours crouched over an upright machine, getting camp and zapping away for all you were worth. You can now recline in a soft-down booth and blast away in style.

The controls for Interstellar are a close replica of an aeroplane's joystick with the fire buttons placed directly under the thumbs for easy firing, a lever allowing you to bank your craft completes the controls.

INTERSTELLAR

The sounds of exploding aliens, meteors, enemy space craft and, unfortunately, your own craft, fillers into the booth enveloping you.

You dodge a space craft over the amazing landscapes of Interstellar. The scenario is startling and colourful — real-life film overlaid with computer graphics presents a very futuristic effect.

Taking off, you set course and fly over a city that resembles the Manhattan skyline, changing into a desert with sand dunes stretching into the distance as far as the eye can see you are set upon by the enemy.

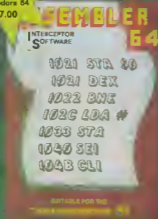
To get through the game, you'll need a steady hand and a cool head. All your skill is required as you throw your craft through the sky in an effort to dodge meteors and enemy rockets.

Watch out for the tanks — they're equipped with heat-seeking missiles and very accurate!

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BLASTERMIND! ★

At first glance this might seem to be just another version of a very popular game. How wrong can you be!! True the start is simple enough. The Spectrum picks a code of numbers or colours with a selection of levels of difficulty — and invites you to do the same. You then take it in turns to guess each others code from the clue supplied after each guess. An extremely well written, fast and very clearly displayed game with almost inevitable defeat. This was exactly as intended but unfortunately...

went wrong. During the programming strange complementary messages began to appear on the screen. At first they were so few they were not taken too seriously but soon they could no longer be ignored. Somehow the Spectrum had been given a personality — a rather deviant supercilious dislikeable hateful horrible mind.

SPECTRUM 48k £5.50



Side B contains a version of the game compatible with the excellent Currah uSpeech unit — even worse!!

The Quest of Merravid ★

VIC 20 (16k) £7.95 or Commodore 64 £7.95

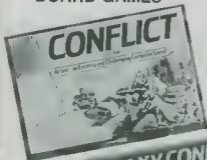
A really challenging and enjoyable adventure written by a confirmed adventure addict who grew tired of the ease with which he solved other adventures himself. Will accept and act on sentences containing up to nine words.

The adventurer becomes Merravid, charged with the task of hiding taking and then returning the magic Firestone of the Dwarves. However, overcoming the many novel and original has

led to the very intricate, so full and imaginative thought is required if progress is to be made and the Firestone tracked down to the lair of the Dragon of Thargon. Even then the Dragon has to be defeated and the stone retrieved. A compulsive extremely enjoyable and very user friendly adventure.



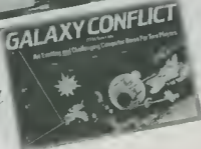
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WELL, JUST WHAT IS IN THAT LETTER...

It was one of those nights that make you want to get as close to the fire as you can and enjoy a nice glass of claret and read a good novel. The mat outside was thick and damp as Sherlock Holmes settled into his favourite chair in the comfortable sitting room of his Baker Street apartments.

Dr Watson was out at the opera and Holmes was looking forward to a nice quiet evening alone. But first, thought Holmes, I must just go through that pile of letters on my desk. They might contain some interesting items of news.

Holmes got up and walked over to his elegant antique roll top desk and opened it, withdrawing the pile of letters resting on the top shelf.

He placed the pile of letters on the small table by his armchair and poured himself a liberal glass of claret before settling back into the chair. He opened the top letter on the pile — another bill!

The next one was more interesting. As he read the letter his eyes widened



in amazement at the words it contained. "This is incredible!" he exclaimed, beginning to re-read the letter.

Out in the street the mist began to thicken. The few moving figures in the street, huddled-up against the cold, were reduced to mysterious shadows.

Suddenly one of these shadows moved toward the brightly lit window of 221B Baker Street and peered inside. Holmes was still deeply engrossed in the letter. The mysterious figure reached inside his coat and moved closer to the window.

Well, do you know what was in the mysterious letter that interested Holmes so much? You do! Then why not let us in on the secret. We've got six C&VG The Champ shirts waiting for the best six answers to our Holmes riddle. Answers on a postcard only please to Sherlock Holmes Competition, Computer and Video Games, Durrant House, 8 Herbal Hill, London EC1R 3EJ. Closing date is January 16th and the editor's — and Holmes of course — decision is final.

MORE FREE TAPES...

Where were you, Commodore 64 owners in Greater Manchester? We've still got 34 Arcadia 64 game tapes from Imagine software to give away — absolutely free!

All you have to do is rush us the coupon below on a postcard and we'll send YOU a free game.

We've decided to open the contest just to anyone living anywhere in the British Isles this month — so the first 34 requests we get for Arcadia tapes will soon be the happy owners of a brand new game for their machine.

IS YOUR GAME WORTH A MODEM?

Have you got a game program you know will knock the socks off everyone who gets to play it? Or perhaps you've got a half finished listing which is going to be the game of the century once you've got around to completing it? Maybe you've just got a great idea for a game and need a final incentive to sit down at your keyboard and work it out?

Well, here at Computer and Video Games we're quite good at providing good incentives, as our previous competition winners will tell you! And this latest idea from the competition department at C&VG will no doubt encourage you to get those brains in gear.

We've got together with Micronet 800, the new system which brings software to your home via the telephone lines, and put together a package of

prizes that will encourage even the most jaded programmer to rush back to his micro and start working!

Here's what we want you to do. Simply look out your best games listing — or get cracking and write a new one. The more original your game is the better — but we're always happy to see a well turned out version of a classic game.

Then, fill in the coupon and mail it with a tape of your game, instructions on how to play it, a listing of your program if you have a printer and, most importantly, your name, address and telephone number.

Then send everything off to Computer and Video Games Programming Competition, Micronet 800, 155 Farringdon Road, London EC1R 3AD.

The competition is open to Spectrum, BBC, Tandy, Apple and Commodore Pet owners. All these micros are compatible with the Micronet 800 system.

Now for the best part — this prize! First prize winner will get a Prism Modem 1000, which will link his, or her, micro to the Micronet 800 system, plus a years subscription to Prestel/Micronet 800. The winning program will appear on the Micronet system so the author's name will go up in lights!

Second and third place winners will get a Modem plus games software for their micros from the Computer and Video Games vaults. Fifth to eleventh place programmers will get elegant Micronet 800 t-shirts. And all the best programs will go onto the Micronet 800 system, complete with credits for their authors. So everyone's a winner!

Each entrant will receive details of the Micronet 800 system and what it offers the micro owner.

Closing date for the competition is February 16th 1984, and we'll need about a month to sort through your programs. So get cracking over Christmas — and who knows Santa might just find a modem in the bottom of his sack for you!

Name _____
Address _____
Telephone _____
Name of game _____
No of K needed _____
Any other information _____
Micro it runs on _____
Other equipment (add-ons, joysticks etc) _____



"Two pints of blue blood and a packet of Krypton crackers, please, Fred".

"Saturday night and they've just got paid".

"The place just isn't the same since E.T. came home".

"If those Earthlings would stop shooting us, and come and join us they'd have so much more fun".

YOU'VE GOT A WAY WITH WORDS

Judging from the flood of suggestions for a caption for our calendar, free inside November's *C&VG*, you all enjoyed Ross Collin's impression of a noisy alien bar room.

We were tickled pink reading some of your witty suggestions and — after much deliberation — have managed to whittle them down to six lucky winners — who will receive *Computer & Video Games* "The Champ" T-shirts.

Quite a few of you couldn't resist using "two pints of lager and a packet of crisps, please" from the pop record of a couple of years ago — but we decided to award a T-shirt to Matthew Davy of Essex who developed this idea further to read "Two pints of blue blood and a packet of Krypton crackers, please, Fred".

My personal favourite is from

John Bennett who has a joke at the expense of *C&VG*'s illustrious editor with "Which one is Terry Pratt" (that's enough of that — ed.).

Alan Hurt made us wonder what a really rough alien pub must be like with "Quiet in here tonight, eh, Burt?".

Brian Dear's entry contains a word of explanation as to the goings-on in the picture with "Saturday night and they've just got paid".

Bryon Stanway was the only person who chose a famous alien from the movies with "The place just isn't the same since E.T. came home".

Andrew Barlow concludes with a thought for the day for video games nuts with "If those Earthlings would stop shooting us, and come and join us they'd have so much more fun".

Well done, everyone — the T-shirts are in the post.

SPOTTING THE DIFFERENCE

We were deluged last month with budding tank commanders who all spotted the differences between the two tanks in our picture.

Sharp eyed winners of a brand new Atari Battlespace cartridge are Balju Patel of Surrey, Brian Hambley of Prescot, Merseyside, Mr J. W. Falconer of Glenrothes, Darren Jones of Newcastle in Staffs, Debbie Willows of Bath, M. Livings of Portishead, Bristol, D. Moore of Rochester in Kent, Tom Haslam of Leicester, Fraser Watson of Sheffield, and Mr J. P. O'Hanlon of London.

Battlespace is Atari's latest arcade conversion of the hit coin-op game.

The cartridges worth £29.99 each are now in the post to our lucky winners for use on an Atari VCS. Don't forget the biggest and best prizes are in *C&VG* every month.

OVER THE BORDER!

It's a happy Hogmanay to all our Scottish readers as we bring our rolling city competition north of the border.

To win one of Imagine's new games all you have to do is fill in the form below and send it off to us without delay.

As long as your entry bears a Scottish post mark from anywhere in the country you will have a chance of winning a free game.

When we told Imagine that we were going to open the rolling city competition up to the whole of Scotland they generously increased the number of free games from 100 to 200.

The games on offer are *Stonkers* — a 3D style tank battle for the 48K Spectrum — *Alchemist* a graphic style adventure in which you are cast as a wizard, also for the

48K Spectrum.

Please state first choice and second choice on your entry form.

Name

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1st Choice

2nd Choice

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Quincy is a superb dice game for 2 to 6 players by obtaining certain combinations. I.e. of a kind, a run, pairs etc. 12 go's to complete a game. The highest score is the winner. It's a game that is easy to learn, but can be won by skillful and thoughtful play. Full colour graphics on screen instructions. Bonus scores etc.

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Dinky Kong Attempts to rescue your lovely girlfriend who is held captive by the mighty gorilla. As you climb the connecting ladders and move along the gamepieces the gorilla will be listening. You're teaching him how to leap over the obstacles and progress to the top. Micro action with sound effects, full color action graphics, skill levels etc.

Author: Adam Sheppard

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Author: Adrian Sheppard
ISBN: 488 44 99

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Hi! I'm Derek the demolition expert and this building has got to go! You can help me by finding the ten links which hold up the decrepit frame.

Unfortunately, not everyone wants this building to be knocked down — and there are booby traps to contend with. Weightless fireballs are flying at you from the oil pot and there are mustard and goulash pies on the scene too — what a way to go!

As you toddle along the frame of the building you'll find bits suddenly drop out, leaving you with a gap to jump. You can jump the gaps and the pies and fireballs by pressing the jump key and a movement key to power you in the right direction.

Certain objects are positioned around the building which will earn you bonus points if you managed to pick them up — but there are a few that explode on contact, so beware! Extra fireballs and pies appear after each screen is cleared, and you'll get a bonus men after

you've completed four screens.

Controls are:

5-left, 6-down, 7-up, 8-right, 9-jump.

```

10 BORDER 1: PAPER 1. CLS. IN
K 7. PRINT AT 10,7:"Please wait.
": GO SUB 1000: GO SUB 920
20 LET a$=""
... LET b$=""
30 LET p=0: LET count=0: LET l
ives=0. LET s=0: LET c$=""
40 GO SUB 50: GO SUB 120. PRIN
T AT 7,13:"Ready?" FOR i=1 TO
275: NEXT f: PRINT AT 7,13,"
": GO TO 150
50 CLS: GO SUB 1000: FOR f=5
TO 21 STEP 4: PRINT AT f,0:"XXXX
XXXXXXXXXXXXXXXXXXXXXXX". N
EXT f
60 PRINT 80; INK 5;" @ M.S.J.
White February 1983
70 INK 3: FOR f=5 TO 21 STEP 4
PRINT AT f,10:""; AT f,20:"
NEXT f
80 INK 4: FOR f=5 TO 6: PRINT
AT f,3,"A"; AT f,23,"H"; AT f+4,6;
"H"; AT f+4,26,"A"; AT f+8,12,"H";
AT f+8,18,"A"; AT f+12,5,"H";
AT f+12,15,"A"; AT f+12,27,"A": NEXT
f
90 BRIGHT 1: INK 5: PRINT AT 4
1,12:""; AT 4,28,""; AT 16,1,""; AT
16,13,""; AT 16,27,""; INK 7: BRIGHT
0
100 PRINT AT 8,14,"INK 2,"; AT
9,13,"INK 6,"; AT 11,26,"INK 6: PLO
T 112,95: DRAW 0,-8: DRAW 15,0.
DRAW 0,8: PLOT 112,90: DRAW 15,0
INK 7
110 RETURN
120 LET a=12: LET b=15
130 PRINT AT 0,0,"SCORE=",a: AT
0,19,"LIVES=",b: AT 1,15
FOR f=1 TO lives*2 STEP 2
PRINT AT 0,25+f,"2"; AT 1,25+f,"
": NEXT f
140 RETURN
150 PRINT AT a-1,b,"X"; AT a,b,"
160 GO SUB 870
170 IF AND>0.91 THEN GO TO 820
180 IF a=8 THEN GO TO 780
190 IF a=20 THEN GO TO 800

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200 IF INKEY$="" THEN GO TO 150
210 LET e$=INKEY$: IF e$="9" TH
EN GO TO 850
220 IF e$="7" THEN PRINT AT a-1
,b,"0"; AT a,b,"A": FOR f=1 TO 3:
NEXT f: GO TO 240
230 PRINT AT a,b,"T"
240 LET s=s+5: PRINT AT 0,6,s.
BEEP 0.003,30
250 PRINT AT a,b,""; AT a-1,b,"
260 LET b=b+(e$="8" AND b<31)-1
e$="5" AND b>1)
270 LET q=ATTR (a+1,b). IF q<>1
5 THEN GO TO 320
280 LET w=ATTR (a-2,b): IF w=12
THEN GO TO 350
290 IF SCREEN$ (a+1,b)=" " THEN
GO TO 670
300 IF RTTR (a,b)=77 THEN GO TO
430
310 GO TO 150
320 IF q=12 AND e$="6" THEN GO
TO 410
330 IF q=11 THEN LET p=p+1. LET
s=s+50. PRINT AT 0,6,s: FOR f=1
TO 3: BEEP 0.01,f*2: BEEP 0.01,
f*3: NEXT f: PRINT AT a+1,b,"";
AT a,b," ". LET b=b+(e$="5")-(e$
="6") IF p=10 THEN GO TO 550
340 GO TO 150
350 IF w<>12 THEN GO TO 150
360 IF e$="5" OR e$="8" OR e$="
" THEN GO TO 150
370 IF a=4 THEN GO TO 150
380 FOR f=1 TO 4: GO SUB 870: P
RINT AT a-1,b,"0"; AT a,b,"A": BE
EP 0.005,f*10: BEEP 0.005,f*5:
FOR a=1 TO 5: NEXT a: PRINT AT
a,b," ". IF f>2 THEN PRINT AT a
,b, INK 4;"I"
390 LET a=a-1: NEXT f

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```

400 GO TO 290
410 IF e="5" OR e="0" OR e=" "
  THEN FOR f=1 TO 4: GO SUB 870: P
  420 FOR f=1 TO 4: AT a-1,b,"0": BEE
  PRINT AT a,b,"1": PRINT AT a-1
  R 0=1 TO 5: NEXT 0: 10-1#2: BEEP
  0.006,10-1: IF f=2 THEN PRINT AT
  0.006,10-1: INK 4,"1"
  a-1,b: LET a=a+1: NEXT f
  430 GO TO 290
  440 IF AND(0.92 THEN PRINT AT a
  450 INK 3,"2": AT a-1,b: FOR f=1
  b: 0.1,-30: BEEP 0.1,40: PRINT AT a,b,"1"
  TO 150: NEXT f: PRINT AT a,b,"1"
  GO TO 670
  460 FOR f=1 TO 7: BEEP 0.01f/1
  0,f#5: BEEP 0.01,f#7: NEXT f
  470 LET s1=(INT (RAND*5)+1):100
  480 PRINT AT a,b-1,s1
  490 LET s=s+s1: PRINT AT 0,s,s:
  FOR f=1 TO 100: NEXT f
  500 PRINT AT a,b-1,"1"
  510 GO TO 150
  520 LET y=(INT (RAND*31)+1) IF y=
  530 LET x=INT (RAND*150)
  540 IF ATTR (y-1,x)=77 OR ATTR
  (y-2,x)=12 OR ATTR (y,x)<15 THE
  N GO TO 150
  550 BEEP 0.007,40: PRINT AT y,x
  560 LET p=0: LET count=count+1
  570 PRINT AT 15,14:"END": AT 14,1
  EXT f
  580 INK 2,"V": PLOT 112,48: DRAW
  4,-3: DRAW 15,0: DRAW 0,8: PLOT
  112,42: DRAW 15,0

```




```

500 PRINT AT 10,13,"WELL";AT 12
.13,"DONE"
500 FOR f=0 TO 500 STEP 5
500 PRINT AT 0,6;f;f. BEEP 0.01
/710 NEXT f
610 LET r=INT (RAND*29)+1
620 IF b$(f)="Δ" OR c$(f)="Δ"
OR a$(f)(">") OR a$(f+1(">") THEN
GO TO 610
630 LET b$(f)="Δ" LET c$(f)="Δ"
" LET a$(f TO f+1)="Δ"
640 IF count=4 THEN LET count=0
LET a$="
" LET b$=" " LET c$=" "
PRINT AT 7,11, FLASH 1,"BONUS H
AN": FOR f=1 TO 100: NEXT f: LET
lives=lives-1 GO SUB 120
650 LET s=5:500: PRINT AT 0,6,s
660 GO TO 40
670 PRINT AT a-1,b;"AT a,b,"
" FOR f=20 TO -20 STEP -1 BEE
0,0,1;f BEEP 0.01,f-20 NEXT f
680 PRINT AT a-1,b," AT a,b,"
690 LET lives=lives-1: GO SUB 1
20
700 IF lives=0 THEN GO TO 730
710 PRINT AT a-1,b,"2",AT a,b,"
"
720 FOR f=1 TO 100: NEXT f: GO
TO 150
730 PRINT AT 10,10, FLASH 1,"GA
ME OVER"
740 PRINT "TAB S;"Another Gam
e 7 (y/n)"
750 IF INKEY$="y" THEN GO TO 20
760 IF INKEY$="n" THEN STOP

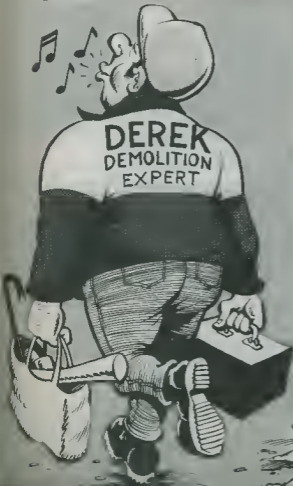
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770 GO TO 750
780 IF b<15 THEN GO TO 810
790 IF c<15-11)="Δ" THEN GO TO
820
800 GO TO 200
810 IF b$(b+5)="Δ" THEN GO TO 6
70
820 GO TO 200
830 IF a$(b+15)(">") THEN GO TO
870
840 GO TO 200
850 FOR f=1 TO 4: FOR a=1 TO 3:
NEXT a: PRINT AT a-1,b;"AT a
b," BEEP 0.005,30: BEEP 0.00
5,40: LET b=b+(INKEY$="3" AND b<
31)-(INKEY$="5" AND b>1) PRINT
AT a-1,b,"2";AT a,b,"A" GO SUB
870: NEXT f
880 GO TO 250
890 LET a$=a$(2 TO 1)+a$(1)
890 LET b$=b$(2 TO 1)+b$(1)
890 LET c$=c$(32)+c$(1 TO 31)
900 BEEP 0.005,20
910 PRINT AT 0,0, INK 6;b$15 TO
18;AT 20,0, INK 5;a$(15 TO 45)
;AT 0,15; INK 6;c$(5 TO 20): RET
URN
920 LET e=PEEK 23675+256*PEEK 2
3675
930 FOR f=2 TO e+107
940 READ C: POKE f,C: NEXT f: R
ETURN
950 DATA 24,102,55,55,50,24,255
,109,109,109,109,35,35,66,66,231
,11,66,231,0,0,0,24,24,24
,255,255
960 DATA 128,126,50,129,255,129
,129,129,255,129,129,255,66,66,2
4,36,66,255,0,255,0,255,255,255,
255,255,0
970 DATA 63,42,81,128,255,127,8
3,31,245,84,34,1,255,254,252,248
,60,66,120,255,219,219,255,126,2
4,24,36,60,145,169,169,126
,980 DATA 128,255,128,152,164,16
4,152,128,255,1,145,145,145,145
,157,1,40,153,74,0,120,66,0,1,152
,2,65,84,140,146,41,36
,990 DATA 4,32,10,136,68,36,20,1
46,8,149,43,68,72,145,170,164,60
,120,255,255,0,0,40,85,24,30,1,5
,195,165,153,255,60,60,60,60,36
,36,66,66,231,189,189,189,36,36,3
6,36,60
1000 PLOT 57,154: DRAW 0,10: DRA
U 5,0: DRAW 2,-2: DRAW 0,-5: DRA
U -2,-2: DRAW 5,0
1010 PLOT 68,154: DRAW 0,10: DRA
U 7,0: PLOT 68,159: DRAW 5,0: PL
OT 68,154: DRAW 7,0
1020 PLOT 79,154: DRAW 0,10: DRA
U 4,-4: DRAU 0,10: DRAU 0,-10: PL
OT 91,154: DRAU 0,10: DRAU 7,0:
DRAU 0,-10: DRAU -7,0
1030 PLOT 102,154: DRAU 0,10: PL
OT 102,154: DRAU 7,0: PLOT 112,15
54: DRAU 0,10: PLOT 113,154: DRA
U 0,10: DRAU -4,0: DRAU 0,0: PLO
T 127,154: DRAU 0,10
1040 PLOT 130,154: DRAU 0,10: DR
AU 7,0: DRAU 0,-10: DRAU 7,0: P
LOT 141,154: DRAU 0,10: DRAU 0,-
10: DRAU 0,10
1050 RETURN

```

DEREK
DEMOLITION
EXPERT




```

300 CALL CHAR(95,"")
310 CALL COLDP(8,4,4)
320 CALL SCREEN(6):: CALL CLEAR
:: CALL MAGNIFY(3):: RANDOMIZE
330 DEF PAN(X)=INT(RND*(X)+1
340 CALL HCHAR(22,1,95,96)
350 CALL SPRITE(#27,116,2,172,PA
N(85),0,5)
360 CALL SPRITE(#19,116,2,172,PA
N(85)+85,0,5)
370 CALL SPRITE(#18,116,2,172,PA
N(85)+170,0,5)
380 FOR A=1 TO 5
390 CALL SPRITE(#A+1,108,2,(A+10
)+20,PAN(250),0,PAN(20)+3)
400 NEXT A
410 CALL SPRITE(#26,112,13,152,1
70)
420 CALL SPRITE(#25,112,13,152,2
00)
430 CALL SPRITE(#24,112,13,152,6
4)
440 FOR A=1 TO 5
450 CALL SPRITE(#A+6,100,15,A*14
+61,PAN(250))
460 NEXT A
470 CALL SPRITE(#1,96,5,10,100,0
,-20)
480 CALL KEY(0,K,S):: IF S<1 TH
EN 480

```

```

490 CALL POSITION(#1,X,Y):: CALL
SPRITE(#28,104,16,X+16,Y,10,0)
500 CALL KEY(0,K,S):: CALL COINC
(ALL,P):: IF R=-1 THEN 650
510 CALL POSITION(#28,J,E):: IF
J>182 THEN 590
520 IF S=-1 THEN 500
530 CALL COINC(ALL,C):: IF C=-1
THEN 650
540 IF S=0 THEN CALL MOTION(#28,
10,0):: GOTO 500
550 IF K<44 OR K>46 THEN 500
560 CALL MOTION(#28,10,0,-45)+10
):: CALL COINC(ALL,C):: IF C=-1
THEN 650 ELSE 500
570 CALL POSITION #28,J,F):: IF
K>184 THEN 590
580 GOTO 580
590 CALL SOUND(100,1000,0):: CAL
L DELSPRITE(#28):: SC=SC+1 :: GO
SUB 600 :: GOTO 480
600 SP=SP-1
610 FOR A=1 TO 5
620 CALL MOTION(#A+6,0,SP)
630 NEXT A
640 RETURN
650 CALL SOUND(1000,-5,0):: CALL
DELSprite(ALL):: CALL CLEAR ::
CALL CHARSET
660 DISPLAY AT(12,8):"YOU SCORED
:"
670 DISPLAY AT(12,20):SC*100
680 RUN 210

```





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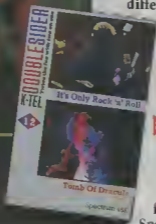
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CRASH LANDING

"Captain! All engines are failing. We're losing altitude. We won't make it to the airfield! And we're over the city! What are we going to do!"

"Don't panic son. We've got a bomb bay full of missiles and I can fly this baby over a derelict area. We'll bomb our own airstrip!"

Can you help the intrepid skipper of this crippled skyship clear a space big enough to land on? If you manage to land the game will start again — but much faster. If you manage to land four times then you're a sky-riding superstar!

Although your aircraft is rapidly losing height the skipper is able to fire up the engines three times during a game which moves the plane up one line. These "jumps" are best used in emergencies!

Program notes

Line 100: initialise and display instructions.

110-130: change display list and set up a display list interrupt.

140: set game variables.

150-250: main program loop.

260-290: bomb dropped routine.

300-410: explode plane and restart game.

420-490: display routine if you manage to land four times!

500-630: redefine character set.

640-750: draw screen.

760: successful landing sound.

770-920: instructions.

```
100 GOSUB 770:GOSUB 490:DIM NM$(10):GOSUB
110 GOTO 140
120 GRAPHICS 1:POKE 710,0:POKE 1545,0:DL
130 *PEEK 560:*PEEK 561)*256:POKE DL+3,65:PO
140 *PE DL+8,134:PESTORE 130
150 FOR J=0 TO 9:READ A:POKE 1536+X,A:NE
160 XT X:POKE 512,0:POKE 513,6:POKE 54286,19
170 RETURN
180 DATA 72,173,9,6,141,24,208,104,64
190 GOSUB 640:SC=0:P=1:NM=20
200 POKE PX,SP: SOUND 1,NM*10,120,4:PX=PX
210 POKE 77,0:POSITION 10,0:PRINT #6:SC=1
```



BY DAVID TAYLOR

RUNS ON AN ATARI 400/800

IN 16k

```
180 IF PEEK(PX)=CB OR PEEK(PX)=DB THEN 1
19
'70 IF INT((PX-CV)/20)=19 AND NN>SP THEN
P=P+2:NN=NN-5:GOSUB 760:GOSUB 640:GOTO
150
130 IF NN=SP THEN 420
190 IF STICK(SP)<15 AND SD<3 AND PX>CV+2
0 THEN PX=PX-20:SD=SD+1:SOUND SP,10,10,1
4
200 POSITION 3,1:7 #6:3-SD:POKE PX,PLANE
210 IF PEEK(S3279)=6 THEN FOR X=1 TO 50:
NEXT X:GOTO 350
220 FOR X=0 TO NN
230 IF STRIG(SP)<>1 AND BD=SP THEN BD=1:
BX=PX
240 NEXT X
250 IF BD=SP THEN FOR X=0 TO NN-4:NEXT X
:SOUND 0,0,0,0:GOTO 150
260 POKE BX,SP:SOUND SP,(BX-PX)/2,120,6:
BX=BX+20
270 IF PEEK(BX)=CB OR PEEK(BX)=DB THEN S
C=SC+P:GOTO 300
280 IF INT((BX-CV)/20)=19 THEN GOTO 300
290 POKE BX,BOMB:GOTO 150
300 POKE BX,EXPLOSION:SOUND SP,120,8,14:
POKE BX,SP:BD=SP:GOTO 150
310 POKE PX,EXPLOSION:SOUND 1,SP,SP,SP:F
DPE BX,SP
320 VOL=15:FOR B=10 TO 50 STEP 0.5:VOL=V
OL-0.2:IF VOL=0 THEN VOL=0
330 SOUND 0,8,8,VOL:SOUND 1,8,16,VOL:SET
COLOR 3,3,RND(0)*14:NEXT B
340 SOUND 0,0,0,0:SOUND 1,0,0,0:POKE PX,
SPACE:SETCOLOR 3,14,12
350 IF SC>HS THEN NM=STR$(SC):POSITION
17-LEN(NM),1:7 #6:SC+10
360 IF SC>HS THEN HS=SC:FOR X=0 TO 10:FO
R S=100 TO 10 STEP -10:SOUND 0,5,10,10:S
OUND 1,5+8,10,10:NEXT S:NEXT X
370 SOUND 0,0,0,0:SOUND 1,0,0,0
380 BD=0:BX=0
390 POSITION 5,7:7 #6:"press start":SD=0
400 IF PEEK(S3279)=6 OR STRIG(0)=0 THEN
140
410 GOTO 400
420 GRAPHICS 2+14:POSITION 7,5:B=(9*16)+
4
```



```

430 ? #61:"you win":? #61: 6000 BOMBIN
611:POKE 712,(3*16)+8:POKE 708,(2*16)+12
440 FOR X=0 TO 500:NEXT X
450 GRAPHICS 2+16:POKE 712,B:POKE 708,(2
*16)+12
460 POKE 756,56:SOUND 1,15,120,4
470 FOR X=0 TO 19:POSITION X,5: ? #61:"Y":
FOR Y=0 TO 100:NEXT Y:POSITION X,5: ? #61:
" ":NEXT X:SOUND 1,0,0,0
480 GOSUB 110:POKE 712,B:POKE 711,188:PO
KE 710,B:POKE 1545,B:GOTO 390
490 N=56:F=1:DIM B$(32):RESTORE 490
500 GRAPHICS 0:POKE 752,1
510 POKE 710,(11*16)+8:POKE 709,0:POKE 7
12,(11*16)+8:POSITION 14,12: ? "CRASH LAN
DING"
520 FOR X=1 TO 32:READ A:B$(X,X)=CHR$(A)
:NEXT X
530 DATA 104,104,133,213,104,133,212,104
,133,215,104,133,214,162,4,160,0,177,212
,145,214
540 DATA 200,208,249,230,213,230,215,202
,208,240,96
550 I=USR(ADR(B$)),224*256,N*256)
560 READ X:IF X=-1 THEN POKE 77,0:RETURN

```

```

570 FOR A=0 TO 7:READ Y:POKE N*256+X*8+A
,Y:NEXT A:GOTO 560
580 DATA 58,254,254,146,146,146,254,254,
254
590 DATA 34,0,0,0,64,92,126,92,64
600 DATA 57,63,148,212,254,255,126,132,1
32
610 DATA 56,16,74,16,170,85,16,74,16
620 DATA 55,0,0,0,16,56,124,254,254
630 DATA -1
640 POSITION 0,0: ? #61:"":PX=(PEEK(BB)+P
EEK(B9)*256)+40:POKE 756,N:CV=PX
650 CL=(9*16)+4:FOR X=708 TO 712:POKE X,
CL:NEXT X:POKE 1545,CL
660 SOUND 0,121,10,10:FOR X=0 TO 50:NEXT
X
670 PLANE=249:BOMB=34:CB=122:DB=119:SP=0
:EXPLOSION=248
680 FOR Y=18 TO 11 STEP -1:L=ABS((Y-21))
+10:SOUND 0,L+10,10,64:FOR XY=3 TO 19 STE
P 6:FOR X=1 TO 3
690 POKE PX+(Y*20)+X+XY,CB:NEXT X:POKE P
X+(Y*20)+(X-5)+XY,CB
700 NEXT XY:NEXT Y:SOUND 0,121,10,10
710 Y=10:FOR XY=3 TO 19 STEP 6:FOR X=1 TO
3:POKE PX+(Y*20)+X+XY,DB:NEXT X:POKE P
X+(Y*20)+(X-5)+XY,DB:NEXT XY
720 POKE 708,(2*16)+14:POKE 709,12:POKE
711,(14*16)+12:POKE 1545,(11*16)+8
730 FOR X=0 TO 25:NEXT X:SOUND 0,0,0,0,0
740 POSITION 7,1: ? #61:"HIGH:00000":POS
ITION 17-LEN(NMS),1: ? #61:HS*10
750 POSITION 4,0: ? #61:"SCORE":POSITION
17,0: ? #61:"JUMPS":RETURN
760 FOR B=1 TO 25:SOUND 0,0,10,10:FOR T=
0 TO 10:NEXT T:SOUND 0,0,0,0:FOR T=0 TO
10:NEXT T:NEXT B:SOUND 0,0,0,0:RETURN
770 GRAPHICS 0:SETCOLOR 2,14,0:POSITION
2,1:
780 ? "Do you want instructions? Type Y
or N":OPEN #1,4,0,"K:":GET #1,K:CLOSE #
1

```

COMMENTS ON LISTING

In line 390 'press start' should be typed in inverse video
 In lines 640,820,930 the curly bracket is a clear screen command
 In line 920 type [2 ESC TAB][INV SPACE] before PRESS
 In line 960 type [2 ESC TAB][INV SPACE] before PRESS, [INV SPACE] after [D]
 In line 970 type [2 ESC TAB][INV SPACE] before START



```

790 IF ?=ASC("N") THEN RETURN
800 IF V=ASC("Y") THEN 820
810 GOTO 770
820 ? " " your aircraft is rapidly desc
ending over a city. The only way to lan
d is!
830 ? "to bomb away all the buildings.
You drop a bomb by pressing the joyst
ick!"
840 ? "button (plugged into the first so
cket) Only one bomb can be in the air at
anyone time."
850 ? " " You are given 3 'jumps'
at the start of each game. Each jump e
nables";
860 ? "the plane to move one line upward
5. To make the plane jump, push the joyst
ick";
870 ? "in any direction. It is best to
save these jumps until as late as possi
ble";
880 ? "in the game. Use a jump if it loo
ks as though you are going to crash."
890 ? " " If you manage to land,
you are presented with a new city a
nd the";
900 ? "plane speeds up. If you manage to
land four times (most unlikely) you w
ill";
910 ? "have beaten the game and an 'e
nd of game' screen will be shown."
920 ? PRESS ANY KEY":OPEN #1,4,0,"":G
ET #1,K:CLOSE #1
930 ? " " When ever the message 'PRESS
START' appears on the screen, you may p
ress";
940 ? "the 'START' key or the joystick b
utton You may press the 'START' key at
any";
950 ? "time during the game."
960 ? ? PRESS ANY KEY TO "
970 ? START THE GAME "
980 OPEN #1,4,0,"F:":GET #1,F:CLOSE #1:R
ETURN

```




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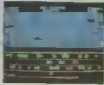
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ROAD RUNNER

BY PHILIP OLIVER

RUNS ON A DRAGON 32

Vrooom, vrooom! Rev-up for a fast and furious race track challenge in your turbo-charged Dragon Special. Straak down the road overtaking all the opposition. How far can you get without crashing?

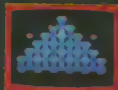
This game has a couple of options for the player. You choose the number of lives you have and the speed. All that and a hi-score feature too! Well, you score the fastest lap — step on the gas and find out.

```
0 REM ROAD RUNNER BY PHILIP OLIVER
1 CLS:PRINT"***** ROAD RUNNER *****"
2 REM FOR THE DRAGON 32
3 REM TYPE THEN FOLLOWING FOR GREATER SPEED:-POKE"65495,0"
4 REM MAIN PROGRAM LOOP 7-9
5 GOSUB 13:REM SETTING VARIABLES
6 GOSUB 39:REM "V" SHAPE TO STOP CARS ESCAPING
7 FOR M=1 TO 9999999999:GOSUB 23
8 GOSUB 19
9 NEXT M
10 GOSUB 33
11 GOSUB 31
12 GOTO5
13 SC=0:BE=1:D=12:D=18:R=6:A=CNR(143+32):REM SC=SCORE:BE=BEAT NI. SCORE:J1=PO
SITION OF NEAR SIDE ROAD:D=DANGER! WIDTH OF ROAD:R=STARTING POSITION FOR ROAD:A=
SIDES OF ROAD
14 INPUT"NOW MANY LIVES WOULD YOU LIKE (1-9)";LE
15 IF LE>9 OR LE<1 OR LE<>INT(LE) THEN 14
16 FOR Z=0 TO LE:XS=C(2):NEXT Z:REM SET NI. SCORE
17 S=LE:PLAY"T42;A0C0C0C0C0C0C0C0C0"
18 RETURN
19 J=JOYSTK(0)/32:J1=J1+J-1:IF J1>31 THEN J1=31 ELSE IF J1<0 THEN J1=0
20 IF POINT((J1)*2,4)=B OR POINT((J1)*2,4)=3 THEN SOUND 200,2:S=S-1:IF S=0 THEN
10 ELSE 6
21 POKE1000+J1,47+S
22 RETURN
23 RN=RND(3)-2:R=R+RN:IF R<1 THEN R=1 ELSE IF R>1 THEN R=D1
24 PRINTR+400,A,A,A:REM NEAR SIDE OF ROAD
25 PRINT(RND(0))+400+R,CHR(143+112):REM PRINTS RANDOM CARS AT BASE OF SCREEN
26 PRINTR+D+479,A,A:A:REM FAR SIDE OF ROAD
27 SC=SC+10:IF INT(SC/1000)*SC/1000 THEN D=D-1:IF (INT(SC/10000)=SC/10000) THEN
PLAY"T42;A0C0C0C0C0C0C0C0C0"
S=S+1:REM FREE LIFE AT 1000
28 PRINTR,SC
29 IF SC>XS THEN IF BE=1 THEN PLAY"T42;A0C0C0C0C0C0C0C0C0":BE=0:REM FOR BEATING NI.
SCORE
```


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—DAN TOLK, NRC, 09/95

TRENCH

ly the least exciting name we've heard for one of the most
 patterns we've played. Remember the end of RETURN OF
 the Beech? Wing Fighters down the 3D Trench towards the
 the fighters as they attack. 9 skill levels. sensational
 V.C. 32K BBC £7.95

ROADRUNNER

● The graphics are excellent and sound is used effectively. I enjoyed the game very much instead of the Galaxy V. Very superior and obstacles and collect points for checkpoints very catching. (S. menez) 33K BBC: £7.95

747 FLIGHT SIMULATOR

Simulator around that runs on the Beeb - a must for all budding pilots. (PiersCompReview) By Captain Roger Selby of British Airways: You're in charge of a 747 which you may choose to land at either Heathrow or Gatwick. 11 control keys, clear instrument display, good runway view as you approach, 8-page on-screen flight briefing. The crashes are very realistic! No joystick. (Dr Sch) 12K BBC £8.95.

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GROUCHO

Find the Hidden Star and win a trip to Hollywood! A
adventure with lots of good tunes and great cartoon
the Panini around the USA. Discover the 22 clues, name the
1/6/84) A brilliant follow up to PIMANCA. No joysticks

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MANIC MINER

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Hours and hours of sheer pleasure—2X Comp! Explore an 8-story maze and treasure-sword duels. BUT this time you can see exactly where you are and what you're doing: the maze scrolls as fast as you can move. Brilliant graphics (by waving your sword about) and 19 overhead levels. No mystique. (Crystal 48K SPECTRUM £7.50)

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Excellent graphics are used to make a very impressive display indeed - highly recommended of the famous game we've ever seen. From 2 to 5 players original feature is faithfully reproduced and the screen format 48K SPECTRUM £5.00

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Spectrum classics (HomeCompWldy) Enchanting graphic adventure
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1983 famous is now also available for the 32K BBC. Free
so this unique real time adventure 80 locations massive
4 people 18 months to write! No pyramids. (Melbourne) 32K

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● **WITH FREE 3D CLASSES!** *Not just a game with a new gimmick, it's also the first ever true 3D program. To destroy the old 2D titles! No joysticks. (Preston)

DICTATOR

One of the most complex games I have seen - an excellent game not exhausted by even dozens of players. President, you aim to rule as long as you can while tilting the Great Powers as they threaten to Aid your Escape (aka victory). 32K BBC 48K SPECTRUM 16.95

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```

100*TV254
101*FX9,3
102*FX10,3
103*FX11,0
105MODE2:PROCDEFINE:DIMLEG 0,DIR 0,PEDEX% 40,PEDEY% 40:PROCCASSEMBLE:MODE7 PROC
INSTR:MODE2
110DIMh1%(10),h1%(10) exp$=CHR$232 exp2$=CHR$233+CHR$8+CHR$10+CHR$234 b1$=" "+
CHR$9+CHR$10+" "
130ENVELOPE2,133,0,0,0,2,1,11,63,0,-10,-5,126,16
140ENVELOPE1,2,10,0,0,10,1,1,126,0,0,-126,126,126
150ENVELOPE3,129,1,-1,1,5,10,5,127,0,0,-127,127,127
160FORI%=1TO10:h1%(I%)=10000 h1%(I%)="BBC":NEXT
200COLOUR7:COLOUR120 CLS:COLOUR132 PRINT"SCORE 000000 LIVES 3":COLOUR120
210ac%0:l1fe%=3 ?LEG=5:LE%=2:COLOURS:PRB%=0:tas%=0 Z=RND(-LE%#100)
4000DF%=0.bx%=9:bf%=0 ff%=0 sef%=0 tbf%=0:DIR=1 IF?LEG>14?LEG=14
4005PROCFDESTART
4010PRINTTAB(9,29)CHR$227:TIME=0 REPEAT UNTILTIME=300
5020COLOUR1:PROCOBS(20,229):COLOUR2 PROCOBS(15,230):COLOUR6 PROCFEDE(?LEG)
5030VDU23,0202:0,0,0;
5040IFFNFEK((PEDEX%?1)+FNDI(?DIR),PEDEY%?1)=133 DIR1=?DIR ?DIR=0 CALLMC ?DIR=IF
NSMD(DIR1) GOT05080
5045IFFNFEK((PEDEX%?1)+FNDI(?DIR),PEDEY%?1)=134AND ?LEG<39 ?LEG=?LEG+1 CALLMC
GOT05080
5050IF(PEDEX%?1)+FNDI(?DIR)=20?DIR=0 CALLMC ?DIR=2:GOT05080
5060IF(PEDEX%?1)+FNDI(?DIR)=-1?DIR=0 CALLMC ?DIR=1 GOT05080
5070CALLMC
5080PROCKEY-IFFF% PROCMismove
5081IF?LEG=0GOT010000
5002IFPEDEY%?1=29 GOT08600
5090IFbf% PROCMmove ELSEIFRND(10)<LE%PROCdrop
5094COLOUR6
5095IFDF% GOT09000
5099GOT05040
5100DEFFNDI(D):IFD=2=-1ELSE=D
5200DEFFNPEEK(X,Y) VDU31,X,Y LOCALC

```



Defend your garden from the creepy Crawler! This nasty insect has invaded your vegetable patch and has only one aim in life — to eat everything it sees! The Crawler moves down the screen at you — while you blast away at it with deadly slug pellets! If the Crawler hits a mushroom or reaches the side of the screen, it reverses direction and moves down a line. If it eats an apple its length increases by one segment.

Your aim is to stop it reaching the bottom of the screen. If it manages this twice you'll lose one of three lives. You'll also lose a life if the Crawler hits you with one of the deadly insect bombs it drops. Just another hazard to contend with! In order to finish off the Crawler completely you have to hit its head with one of your pellets. Hitting the body simply

scores points. You can also score points by hitting the mushrooms and apples. But beware, the mushrooms split into three when hit, so you'll have to be careful not to give the Crawler an easy path to the bottom of the screen. You'll get bonus points if you hit the Crawler's head.

If you reach 1,000 points the Crawler starts to get a bit wiser. It can detect your position and drops bombs with alarming accuracy. If you pass 3,000 points the bombs might just start chasing you! You'll have to chase them down before they hit you. You get an extra life for every 20,000 points.

There is a top ten feature built into this game — but you'll have to get over 10,000 to get into it. Mark says his own top score is around the 50,000 mark — can you beat him?

```
5210X=135;C=(USR(&FFF4)&AND&FFFF)>DIV&100
5220=C
```

```
5300DEFFNSWD(D);IFD=1=2ELSE1FD=2=1ELSE=D
```

```
6000DEFFPROCS(N0,CH%);REPEAT
```

```
6010PRINTAB(RND(16),RND(28)>CHR$(CH%);N0=N0-1,UNTILN0=0:ENDPROC
```

```
6020DEFFPROCPED(X%);PRINTAB(5,1)>CHR$224,STRING$(X-2,CHR$225);CHR$226,ENDPROC
```

```
6030DEFFPROCDEFINE
```

```
6040VDU23,226,129,66,60,126,219,255,66,126,23,225,0,0,60,126,255,255,126,60,23,
```

```
224,12,30,63,255,255,63,30,12
```

```
6050VDU23,227,24,24,60,126,255,255,126,60,23,228,0,24,24,24,24,36,23,229,
```

```
28,126,255,90,24,24,56,23,230,0,106,255,255,255,126,60,0,23,231,60,24,24,60,6
```

```
0,60,60,24
```

```
6060VDU23,232,137,74,44,248,31,52,82,145,23,233,165,165,153,74,74,74,74,74,2
```

```
3,234,44,44,44,44,173,153,90,60
```

```
6100ENDPROC
```

```
6200DEFFPROCASSEMBLE;OSWRCH=&FFEE
```

```
6210D1MMC 200;FORPASS%>0TOSTEP2
```

```
6215FX=MC
```

BY MARK HAW

RUNS ON A BBC B IN 32K

AND NOW FROM LOTHLORIEN



Get some real action out of your computer this Christmas with ACTIONMASTER, a new range of superior arcade games from Lothlorien - the people who brought you ROMAN EMPIRE, JOHNNY REB and other famous WARMASTER titles.

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the last. Your only hope of survival is to kill each wave with a brain-firing photon bolt, but just when you think you're winning you encounter the sordidous guards. Can you kill ten to win another life?

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TWO-GUN TURTLE. In the middle of winter a turtle is defending his strawberry patch against a variety of marauding bugs some go for strawberries some go for you some don't go for anything unless they're accidentally attacked. But remember this is winter and you never know when it might snow!

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This new two-player title:

ORIGIN DICKS Suppose filled high seas drama and the pride of the German Grand Fleet is locked in battle with the Royal Navy. Secret orders, battle graphics, footsies, guns etc.

CONFRONTATION Build on battle game gives a basic format for any modern, non-nuclear conflict. Master save graphics module, landscape scenario and you can create others of your choice using both air and land forces.

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Roman Empire	16K Spectrum/BBC £/Orion 32
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	Atari 400/600 48K
Peoples War	2X 81 16K
Red Baron	16K B

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Dramatic all-graphics reconstruction of a famous World War II Campaign. Your hand-picked force has dropped behind enemy lines to capture a strategic river crossing. 2 versions of the game with ten levels of play.

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The Martians are boring in this superb all-graphics battle. You're in command of land forces defending London when an outbreak of semi-sentient Redweed threatens to immobilize your forces. Fifteen levels of play.



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Price: 288 £4.50 Spectrum £5.50 (except Paras £5.95) Dragon £2/BBC £ 05.95 Tandy £2.95 Atari £12.50

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MORE GOODIES FOR THE BBC MICROCOMPUTER FROM RH ELECTRONICS

The RH lightpen is compact, little bigger than a felt-tip. It is versatile, with a sophisticated microswitch at its point which responds to the slightest pressure, and an LED lamp at the user's end to indicate data transmission. Both microswitch and LED are fully programmable.

The RH lightpen is reliable, with a rugged metal case to provide physical and electronic protection. Its sensitivity can be adjusted to the thickness and type of your TV screen, giving the highest levels of accuracy.

With the lightpen connected to your BBC Micro you can draw lines on the screen or give commands simply by pointing to a menu.

Colour-graphic software

This additional software is available so that all the colours of the BBC Micro's palette are available at the tip of your pen. Complex graphics can be created in minutes.

Art-fun software

This program is guaranteed to bring out the artist in you. It provides inspiration for users of the lightpen and provides full interaction between pen and screen.

Lightpen £45.95. Approved by Acorn
40 track disc version of lightpen
software £1.95.

Colour-graphic software (tape) £9.95
Art-fun software (tape) £9.95



RH Electronics has a whole series of excellent software for the BBC Microcomputer Model B. For games, business and education, they will be highly valued by any BBC Micro owner.

Piegan People Eaters LA 95

Stop the Plegarons' path of destruction by wailing them in. A game of skill (nine levels) and cunning.

Galactic Wipeout £8.95

Fight off alien attackers and meteor showers as you transport the survivors of the human race to a new planet.

Ski Slalom £895

Guide the skier through the 40 gate course avoiding deadly ice and landsliding snowballs.

Viper CB 95

Guide the snake around its electric cage devouring as much food as you can. Avoid touching the electrified walls, swallowing unsavoury food or causing the snake to eat its own tail.

3 in 1 (A) £750

This set of three games for the younger enthusiast includes *Task Force* – a strategic battle of sea and air; *Demolish* – blast your way to freedom avoiding radioactive fall-out and falling masonry as you go; *Cosmos* – where you have to defend the earth from an invading battle fleet.

Ed-master 012 95

This program uses the quiz format combining the element of fun with educational teaching. 160 questions may be programmed by the teacher divided into eight subject areas of 20 questions each. Questions and answers can be changed as often as you wish. The computer will tell the pupil whether he or she has the correct answer or not, but cheating is prevented as pupils cannot access the program to find out the correct answers. The scores of up to 40 pupils are stored in the quiz memory and are easily recalled for comparison.

Snail Trail £4.95

Help the snail escape from the maze he's fallen into before he starves to death. There are two skill levels to this cassette.

Database £12.95

A disk for the business or home. It enables you to file, sort and access a great number of items such as diary entries, addresses, telephone numbers, accounts or other information.

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```

6220COPT PASS%
6230LDA#31 JSROSWRCH LDX LEG LDA PEDEX% X JSROSWRCH LDA PEDEX% X JSROSWRCH LDA#
32 JSROSWRCH
6240LOOP DEX LDA PEDEX% X INX STA PEDEX% X
6250DEX LDA PEDEX% X INX STA PEDEX% X
6260DEX CPX#1 BNE LQOP
6270LDA#31 JSROSWRCH LDX#1 LDA PEDEX% X JSROSWRCH LDA PEDEX% X JSROSWRCH LDA#22
5 JSROSWRCH
6280LDA PEDEX% X TAX LDY DIR BEQ UP
6290CPY#1 BNELEFT INX JMPCHANGE
6300LEFT DEX JMPCHANGE
6310UP LDX#1 LDA PEDEX% X TAX INX TXA LDX#1 STA PEDEX% X JMPFR
6320CHANGE TXA LDX#1 STA PEDEX% X
6330FR LDA#31 JSROSWRCH LDA PEDEX% X JSROSWRCH LDA PEDEX% X JSROSWRCH LDA#225
JSROSWRCH
6340LDX LEG LDA#31 JSROSWRCH LDA PEDEX% X JSROSWRCH LDA PEDEX% X JSROSWRCH LDA#
224 JSROSWRCH
6350RTS J NEXTPASS% ENDPROC
6360DEFPROCPEDESTART FORPEX%1T07LEG
6370PEDEX%PEX%=(?LEG-PEX%)+5 PEDEX%PEX%=1
6380NEXT ENDPROC
7000DEFPROCKEY TX%=bX%
7010IFINKEY<-98> ANDbX%<0 bX%=bX%-1 GOTO7050
7020IFINKEY<-67> ANDbX%<19 bX%=bX%+1 GOTO7050
7030IFINKEY<-99> ANDff%<0 PROCfire
7040ENDPROC
7050COLOUR3 PRINTTAB(TX%,29); " ";TAB(bX%,29)CHR#227
7060GOTO7030
7070DEFPROCfire ff%+1 mx%=bX%-mx%*20
7080PROCmove ENDPROC
7100DEFPROCmove LOCALTY%
7110SOUND1,1,100,2,2%FNPEEK(mx%,mx%-1)
7120PRINTTAB(mx%,mx%), " " mx%=mx%-1 IFmx%<2 ff%<0 ENDPROC ELSECOLOUR3 PRINTTAB
mx%,mx%);CHR#228;
7130IFLX%<32 ENDPROC ELSEff%<0
7140IFLX%<33PROCEXP(mx%,mx%) PROCexp1(mx%,mx%) PROCscore(50) ENDPROC
7150IFLX%<134 PROCEXP(mx%,mx%) PROCscore(100) ENDPROC
7160IFLX%<135 PROCEXP(mx%,mx%) PROCscore(25) bf%<0 ENDPROC
7170IFLX%<129 PROCscore(150);SOUND0,2,5,5-ff%<0 COLOUR6 PRINTTAB(mx%,mx%)CHR#225
ENDPROC
7180IFLX%<128 PROCEXP(mx%,mx%) ?LEG=?LEG-1 PROCscore(200) ENDPROC
7190?LEG=0 PROCscore(300);PROCEXP(mx%,mx%);ENDPROC
8000DEFPROCexp(a%,b%);SOUND0,2,6,10
8010COLOUR10 PRINTTAB(a%,b%);exp$$.#FX15,1
8020$=INKEY$(10);PRINTTAB(a%,b%); " " ENDPROC
8100DEFPROCscore(N%) sc%=sc%+N% IFsc%DIV20000>tsc% life%+life%+1 COLOUR7 COLOUR
132 VDUT PRINTTAB(19,0);life% tsc%=tsc%+1
8105IFN%<25 AND saf% sc%=sc%+N%
8110COLOUR7 COLOUR132 PRINTTAB(12-LEN(STR$sc%),0);sc% COLOUR120 ENDPROC
8200DEFPROCexp1(a%,b%);COLOUR1
8210$=INKEY$(10);GOTO8220
8210IFFNPEEK(a%,b%-2)<>32 GOTO8220 ELSEPRINTTAB(a%,b%-2)CHR#229
8220IFFNPEEK(a%-2,b%)<>32 GOTO8230 ELSEPRINTTAB(a%-2,b%)CHR#229
8230IFFNPEEK(a%+2,b%)<>32 GOTO8240 ELSEPRINTTAB(a%+2,b%)CHR#229
8240$=INKEY$(10);GOTO8250
8300DEFPROCmove IFbf% ANDbm%<29 GOTO8320 ELSE$SOUND2,3,(30-bm%)*7,2
8310PRINTTAB(bm%,bm%) " "
8311IF$=f% bm%+=bm%+(bX%-bm%)-(bX%+bm%)
8312LX%FNPEEK(bm%,bm%+1)
8320bm%+=bm%+1 IFbm%<30PROCEXP2 ENDPROC ELSE PRINTTAB(bm%,bm%)CHR#231
8330IFLX%<32 ENDPROC ELSEbf%<0
8340IFLX%<139 PROCEXP(bm%,bm%) PROCexp1(bm%,bm%);ENDPROC
8350IFLX%<134 PROCEXP(bm%,bm%) COLOUR2 PRINTTAB(RND(18);RND(28));CHR#230 ENDPROC
8360IFLX%<131 PROCEXP2
8365IFLX%<132 PROCEXP(bm%,bm%) PROCscore(25);ff%<0 ENDPROC
8370ENDPROC
8400DEFPROCexp2 IFbf% GOTO8450
8410SOUND0,2,6,5 COLOUR10 PRINTTAB(bm%,29)exp2$, IFbm%<bX%GOTO8440
8420bf%<0 #FX15,1
8430$=INKEY$(10);PRINTTAB(bm%,29);b1$ ENDPROC
8440$=1 SOUND0,2,5,5 ENDPROC
8450IFbf%<25 PRINTTAB(bm%,29); " TAB(bm%,30)CHR#231,
8455SOUND0,3,1,1

```

```

8460bf%:=bf%-1:IFbf% ANDbx%<>bx% ENDPROC ELSEGOTO8410
8500DEFFPROCdrop LOCAL%:IFLE%>5 GOTO8530
8510%:=RND(?LEG) bx%:=PEDEX%?%:bx%:=PEDEX%?%+1
8515IFsc%>30000 AND RND(10)<sc%DIV10000 sc%:=1 ELSEsc%:=0
8516IFsc%>30000 AND RND(10)<5 bf%:=25 ELSEbf%:=0
8520bf%:=1 PROCbmove ENDFPROC
8530IFABS(PEDEX%?1-bx%)<?LEG bx%:=PEDEX%?(ABS(PEDEX%?1-bx%)+1) bx%:=PEDEX%?(ABS(PEDEX%?1-bx%)+1)+1 GOTO8515 ELSEGOTO8510
8600FRB%:=FRB%+1 IF?LEG:=10GOTO8660
8605BN%:=10-?LEG+2:IFBN%>50 BN%:=50
8610BN%:=STRING$(BN%,CHR$226+" ") FORQ=29TO1STEP-1 SOUND2,3,Q#7,3:NEXT
8620PROCclear PRINTTAB(0,29)SPC(39), VDU31,4,13
8630COLOUR2:PRINT "BONUS X 50"
8640PRINTTAB(10-(LENBN%)/2)BN%
8650sc%:=sc%+BN%*50 TIME:=0 REPEAT UNTILTIME=300
8660IFFRB%=2GOTO9000
8665IFLE%<10LE%:=LE%+1
8666?LEG:=LE%+3
8670PROCclear PRINTTAB(0,29)SPC39, GOTO4000
9000REMlife lost
9010life%:=life%-1:COLOUR? COLOUR132:PRINTTAB(19,0):life% COLOUR128
9020IFlife%>0PROCclear PRINTTAB(0,29)SPC39, FRB%:=0:GOTO4000
9030COLOUR11 PRINTTAB(5,8),"GAME OVER" #FX15,1
9040TIME:=0:REPEATUNTIL TIME=300 PROCclear
9050COLOUR132:PRINT COLOUR128
9060IFsc%>hi%(10) PROCscore
9070VDU31,2,6 COLOUR3
9080FORQ=1TO10 PRINTSTRING$(1,"")TAB(2,Q#2+4)hi%(Q),TAB(12,Q#2+4),hi%(Q),FR
INT "TAB(2), NEXT
9090COLOUR132 COLOUR?PRINTTAB(0,29)"ANY KEY FOR NEW GAME", #FX15,1
9100REPEAT UNTILINKEY$(0)<>" " #FX15,1
9105PRINTTAB(0,29)SPC39,
9110GOTO200
10000FORQ=1TO29:SOUND2,3,Q#7,1 NEXT
10010PROCclear PRINTTAB(0,29)SPC(39), VDU31,4,13
10020COLOUR3
10030PRINT"BONUS X 100"
10040BN%:=sc%DIV1000+1:IFBN%>20 BN%:=20
10045BN%:=STRING$(BN%,CHR$226+" ")
10050IFLENBN%<26 PRINTTAB(10-(LENBN%)/2)BN% ELSEPRINTBN%
10060sc%:=sc%+BN%*100 TIME:=0 REPEAT UNTILTIME=300
10070IFLE%<10LE%:=LE%+1
10080?LEG:=LE%+3 PROCclear:GOTO4000
10090DEFFPROCscore LOCAL%:lx:=10:hi%(1)<sc%+1 PRINTTAB(0,29)SPC39,
1010REPEAT lx%:=lx-1:hi%(lx+1)<hi%(lx)>hi%(lx+1)<hi%(lx)
10120UNTILsc%>hi%(lx-1)
10130VDU31,5,10 COLOUR5 PRINT"HIGH SCORE!" TAB(2)"ENTER YOUR NAME" TAB(2)"(Max
6 letters)"
11035#FX15,1
11040INPUT "hi%(1)> IFLEN"hi%(1)>>6 PRINTTAB(0,16)SPC20,TAB(0,16), GOTO1
1040
11050hi%(1)<sc% PROCclear ENDFPROC
11060DEFFPROCclear:FORQ=1TO29 VDU31,0,Q:PRINTSPC(20) NEXT:ENDPROC
11100DEFFPROCINSTR
11110VDU31,12,2,141,130 PRINT "C R A W L E R"; VDU31,12,3,141,130 PRINT "C R A
W L E R"
11120VDU31,5,6,134,136 PRINT"HEAD",CHR$137 "300 Points PLUS",CHR$136,"BONUS"
11130VDU31,5,8,134,136 PRINT"TAIL",CHR$137,"200 Points"
11140VDU31,5,10,134,136 PRINT"MIDDLE",CHR$137,"150 Points"
11150VDU31,5,12,130,136 PRINT"APPLE",CHR$137,"100 Points"
11160VDU31,5,14,129,136 PRINT"MUSHROOM",CHR$137,"50 points"
11170VDU31,5,16,133,136 PRINT"BOMB",CHR$137,"25 Points"
11180VDU31,13,20,135,157,132:PRINT"KEY FOR MORE",CHR$156
11190#FX15,1
11200REPEATUNTILINKEY$(5)<>" "
11210VDU12,31,12,2,141,130:PRINT "C R A W L E R", VDU31,12,3,141,130 PRINT "C R
A W L E R"
11220VDU31,11,6,131,136 PRINT""Z",CHR$137 "to 90",CHR$136,"LEFT"
11230VDU31,11,10,131,136 PRINT""X",CHR$137,"to 90",CHR$136,"RIGHT"
11240VDU31,11,14,131,136 PRINT""SPACE",CHR$137,"to",CHR$136,"FIRE"
11250VDU31,13,20,135,157,132:PRINT"KEY TO START",CHR$156
11260#FX15,1
11270REPEATUNTILINKEY$(5)<>" "
11280VDU7:ENDPROC

```



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1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31					29	30	31				

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1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
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DECEMBER						
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OOPS!

The Time Lords were up to their tricks in last month's issue of this magazine. We sent our printers forward in time to check out the dates & discovered the calendar printed in December's issue of Computer & Video Games was wrong!!
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When questioned about this epidemic, a representative of DIGITAL FANTASIA, a company who are actively involved in research and development work on Mysterious Adventures said: "There is probably no cure for TIS other than mains torture, fatty fish chips etc. which is the best only a Temporary solution". "In the absence of a more permanent cure, I would advise TIS sufferers to submit to the programme and obtain Mysterious Adventures from any sources available to them". "TIS is highly contagious and spreads through the current Worldwide Electronic Mail. It while you resist, resistance is futile".

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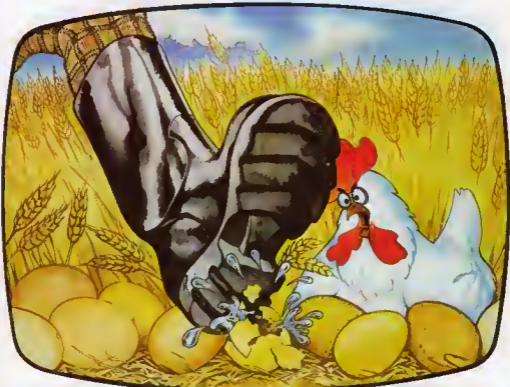


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in the evil Zeron underground Metropolis, and escape before red hot lava floods the city Watch out for the Zeron's bone crushing slaves, they want to tear you apart If your oxygen or power supplies run out, you're dead

In "Road Racer" (on 16k) you'll find out if you're skilful enough to drive round a terrifying track

at death defying speeds, and reach the black and white flag in one piece.

"Gold Rush" (on 16k) is no walk-over either Underneath the eerie planet of Oron is a vast cavern full of gold and demons.

You have to get the gold and the deadly demons have to get you.

In "Blockade Runner" (on 16k) the earth is under siege and you must get life saving supplies through.

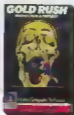
When you've avoided the dense meteor shower, the moving laser barriers, the space mines, the tractor beam units and the alien warships, you'll be good enough to

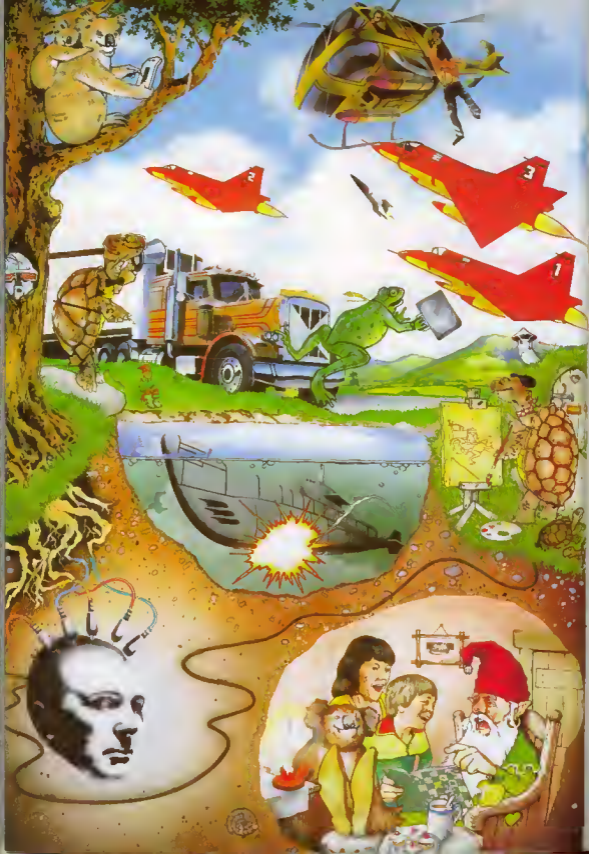
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"River Rescue" (on 48k) is a runaway success on other formats. It's now available on Spectrum. You'll have to navigate the wildest and most dangerous river on earth in a powerful patrol-boat. But keep a sharp look-out for the killer crocodiles They haven't eaten all day

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2. Frogger by Sierra On-Line.

Now you're a frog stranded a long way from home. A perilous journey awaits you. Once across the busy motorway, a surging river full of logs, turtles and alligators awaits. Better flex those Froggy leg-muscles though, the bank is steep, so look before you leap!

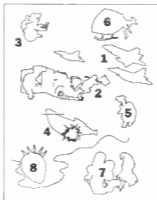
3. KoalaPad Touch Tablet by Koala.

You can't overfeed this Koala - he'll make his own menu selections. He'll also move game players, make musical notes, draw computer graphics and much more. The KoalaPad Touch Tablet is an accessory that'll enhance the capabilities of your home computer system.

4. Sea Dragon

by Adventure International.

Take a deep breath - you'll need it to navigate your suh through a labyrinthian underwater passage to free the menace of the imprisoned Sea Dragon. Mines, electrifying eels and lethal laser beams await you in this murky underwater world. You've limitless torpedoes, but limited air, so hurry!



5. Turtle Graphics II by HesWare.

This Turtle's about to paint the town red. Or green. Or blue with pink spots. By teaching him to paint, draw and colour he'll teach you, painlessly and enjoyably, the basics of computer programming - maths, logic, communications and more with over sixty commands. Ideal for children from six to sixty.

6. Choplifter by Broderbund.

Sixteen hostages are holed up in an inaccessible barracks. Only an ace chopper pilot can free them - you!

Watch out for the tanks, they'll crush anything. They're just for starters - fighter jets and the awesome homing air-mines are yet to come. Good luck... you'll need it!

7. Kids and the Apple/Atari by Datamost.

These books will teach you, simply, how to write your own programmes. Step-by-step instructions teach you how to create your own action, board and word games. Programme your finances or even learn another language - whatever you do, you'll get the most out of your home computer.

8. Suspended by Infocom.

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At random intervals during play the caterpillar's tail will start to burn like a fuse. The only way Cyril can save himself is to reach the medicine bottle as fast as possible and eat it to gain a 500 point bonus and put out the flame. Each segment consumed by the flame is left behind as a spark showing the player just how much Cyril has shrunk. Fortunately Cyril can eat anything while his tail is on fire — so he can pop his way through the garden without being affected by the vegetables. Oh yes, one final hazard: if Cyril touches the sides of the screen he will die instantly.

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11 P0K66665 235 DIFK+9; CV(0)=0; CV(1)=0; CV(2)=0; CV(3)=0; CV(4)=0; CV(5)=0; CV(6)=0; CV(7)=0; CV(8)=0; CV(9)=0; CV(10)=0; CV(11)=0; CV(12)=0; CV(13)=0; CV(14)=0; CV(15)=0; CV(16)=0; CV(17)=0; CV(18)=0; CV(19)=0; CV(20)=0; CV(21)=0; CV(22)=0; CV(23)=0; CV(24)=0; CV(25)=0; CV(26)=0; CV(27)=0; CV(28)=0; CV(29)=0; CV(30)=0; CV(31)=0; CV(32)=0; CV(33)=0; CV(34)=0; CV(35)=0; CV(36)=0; CV(37)=0; CV(38)=0; CV(39)=0; CV(40)=0; CV(41)=0; CV(42)=0; CV(43)=0; CV(44)=0; CV(45)=0; CV(46)=0; CV(47)=0; CV(48)=0; CV(49)=0; CV(50)=0; CV(51)=0; CV(52)=0; CV(53)=0; CV(54)=0; CV(55)=0; CV(56)=0; CV(57)=0; CV(58)=0; CV(59)=0; CV(60)=0; CV(61)=0; CV(62)=0; CV(63)=0; CV(64)=0; CV(65)=0; CV(66)=0; CV(67)=0; CV(68)=0; CV(69)=0; CV(70)=0; CV(71)=0; CV(72)=0; CV(73)=0; CV(74)=0; CV(75)=0; CV(76)=0; CV(77)=0; CV(78)=0; CV(79)=0; CV(80)=0; CV(81)=0; CV(82)=0; CV(83)=0; CV(84)=0; CV(85)=0; CV(86)=0; CV(87)=0; CV(88)=0; CV(89)=0; CV(90)=0; CV(91)=0; CV(92)=0; CV(93)=0; CV(94)=0; CV(95)=0; CV(96)=0; CV(97)=0; CV(98)=0; CV(99)=0; CV(100)=0; CV(101)=0; CV(102)=0; CV(103)=0; CV(104)=0; CV(105)=0; CV(106)=0; CV(107)=0; CV(108)=0; CV(109)=0; CV(110)=0; CV(111)=0; CV(112)=0; CV(113)=0; CV(114)=0; CV(115)=0; CV(116)=0; CV(117)=0; CV(118)=0; CV(119)=0; CV(120)=0; CV(121)=0; CV(122)=0; CV(123)=0; CV(124)=0; CV(125)=0; CV(126)=0; CV(127)=0; CV(128)=0; CV(129)=0; CV(130)=0; CV(131)=0; CV(132)=0; CV(133)=0; CV(134)=0; CV(135)=0; CV(136)=0; CV(137)=0; CV(138)=0; CV(139)=0; CV(140)=0; CV(141)=0; CV(142)=0; CV(143)=0; CV(144)=0; CV(145)=0; CV(146)=0; CV(147)=0; CV(148)=0; CV(149)=0; CV(150)=0; CV(151)=0; CV(152)=0; CV(153)=0; CV(154)=0; CV(155)=0; CV(156)=0; CV(157)=0; CV(158)=0; CV(159)=0; CV(160)=0; CV(161)=0; CV(162)=0; CV(163)=0; CV(164)=0; CV(165)=0; CV(166)=0; CV(167)=0; CV(168)=0; CV(169)=0; CV(170)=0; CV(171)=0; CV(172)=0; CV(173)=0; CV(174)=0; CV(175)=0; CV(176)=0; CV(177)=0; CV(178)=0; CV(179)=0; CV(180)=0; CV(181)=0; CV(182)=0; CV(183)=0; CV(184)=0; CV(185)=0; CV(186)=0; CV(187)=0; CV(188)=0; CV(189)=0; CV(190)=0; CV(191)=0; CV(192)=0; CV(193)=0; CV(194)=0; CV(195)=0; CV(196)=0; CV(197)=0; CV(198)=0; CV(199)=0; CV(200)=0; CV(201)=0; CV(202)=0; CV(203)=0; CV(204)=0; CV(205)=0; CV(206)=0; CV(207)=0; CV(208)=0; CV(209)=0; CV(210)=0; CV(211)=0; CV(212)=0; CV(213)=0; CV(214)=0; CV(215)=0; CV(216)=0; CV(217)=0; CV(218)=0; CV(219)=0; CV(220)=0; CV(221)=0; CV(222)=0; CV(223)=0; CV(224)=0; CV(225)=0; CV(226)=0; CV(227)=0; CV(228)=0; CV(229)=0; CV(230)=0; CV(231)=0; CV(232)=0; CV(233)=0; CV(234)=0; CV(235)=0; CV(236)=0; CV(237)=0; CV(238)=0; CV(239)=0; CV(240)=0; CV(241)=0; CV(242)=0; CV(243)=0; CV(244)=0; CV(245)=0; CV(246)=0; CV(247)=0; CV(248)=0; CV(249)=0; CV(250)=0; CV(251)=0; CV(252)=0; CV(253)=0; CV(254)=0; CV(255)=0; CV(256)=0; CV(257)=0; CV(258)=0; CV(259)=0; CV(260)=0; CV(261)=0; CV(262)=0; CV(263)=0; CV(264)=0; CV(265)=0; CV(266)=0; CV(267)=0; CV(268)=0; CV(269)=0; CV(270)=0; CV(271)=0; CV(272)=0; CV(273)=0; CV(274)=0; CV(275)=0; CV(276)=0; CV(277)=0; CV(278)=0; CV(279)=0; CV(280)=0; CV(281)=0; CV(282)=0; CV(283)=0; CV(284)=0; CV(285)=0; CV(286)=0; CV(287)=0; CV(288)=0; CV(289)=0; CV(290)=0; CV(291)=0; CV(292)=0; CV(293)=0; CV(294)=0; CV(295)=0; CV(296)=0; CV(297)=0; CV(298)=0; CV(299)=0; CV(300)=0; CV(301)=0; CV(302)=0; CV(303)=0; CV(304)=0; CV(305)=0; CV(306)=0; CV(307)=0; CV(308)=0; CV(309)=0; CV(310)=0; CV(311)=0; CV(312)=0; CV(313)=0; CV(314)=0; CV(315)=0; CV(316)=0; CV(317)=0; CV(318)=0; CV(319)=0; CV(320)=0; CV(321)=0; CV(322)=0; CV(323)=0; CV(324)=0; CV(325)=0; CV(326)=0; CV(327)=0; CV(328)=0; CV(329)=0; CV(330)=0; CV(331)=0; CV(332)=0; CV(333)=0; CV(334)=0; CV(335)=0; CV(336)=0; CV(337)=0; CV(338)=0; CV(339)=0; CV(340)=0; CV(341)=0; CV(342)=0; CV(343)=0; CV(344)=0; CV(345)=0; CV(346)=0; CV(347)=0; CV(348)=0; CV(349)=0; CV(350)=0; CV(351)=0; CV(352)=0; CV(353)=0; CV(354)=0; CV(355)=0; CV(356)=0; CV(357)=0; CV(358)=0; CV(359)=0; CV(360)=0; CV(361)=0; CV(362)=0; CV(363)=0; CV(364)=0; CV(365)=0; CV(366)=0; CV(367)=0; CV(368)=0; CV(369)=0; CV(370)=0; CV(371)=0; CV(372)=0; CV(373)=0; CV(374)=0; CV(375)=0; CV(376)=0; CV(377)=0; CV(378)=0; CV(379)=0; CV(380)=0; CV(381)=0; CV(382)=0; CV(383)=0; CV(384)=0; CV(385)=0; CV(386)=0; CV(387)=0; CV(388)=0; CV(389)=0; CV(390)=0; CV(391)=0; CV(392)=0; CV(393)=0; CV(394)=0; CV(395)=0; CV(396)=0; CV(397)=0; CV(398)=0; CV(399)=0; CV(400)=0; CV(401)=0; CV(402)=0; CV(403)=0; CV(404)=0; CV(405)=0; CV(406)=0; CV(407)=0; CV(408)=0; CV(409)=0; CV(410)=0; CV(411)=0; CV(412)=0; CV(413)=0; CV(414)=0; CV(415)=0; CV(416)=0; CV(417)=0; CV(418)=0; CV(419)=0; CV(420)=0; CV(421)=0; CV(422)=0; CV(423)=0; CV(424)=0; CV(425)=0; CV(426)=0; CV(427)=0; CV(428)=0; CV(429)=0; CV(430)=0; CV(431)=0; CV(432)=0; CV(433)=0; CV(434)=0; CV(435)=0; CV(436)=0; CV(437)=0; CV(438)=0; CV(439)=0; CV(440)=0; CV(441)=0; CV(442)=0; CV(443)=0; CV(444)=0; CV(445)=0; CV(446)=0; CV(447)=0; CV(448)=0; CV(449)=0; CV(450)=0; CV(451)=0; CV(452)=0; CV(453)=0; CV(454)=0; CV(455)=0; CV(456)=0; CV(457)=0; CV(458
```

BY CLIFF ASHFORD

RUNS ON A VIC-20 IN 3.5K

TURNIP TURMOIL

```
240 IFR,1AND,4THEN#10 CO=2
250 IFR,3AND,5THEN#9 CO=7
260 IFR,4AND,6THEN#9 CO=1
265 IFR,5THEN#10
270 FOR E36000 TO 1244 CO POK E36000+1244,54 RETURN
400 FOR I=12070200 STEP 5 POK E36876,1 NE,1 POK E36876,0 RETURN
410 FOR I=12070200 STEP 2 POK E36877,1 NE,1 POK E36877,0 RETURN
500 IFR,2THEN#600
505 IFR,3THEN#700
510 CHA POK (7080+CO)*8+22# CYO+8//
520 IFR,4THEN#500 CO=10 P=P+1 ST=ST+1 S=1
530 IFR,5THEN#500 CO=50 P=P+5 ST=ST+1 S=1
540 IFR,6THEN#500 CO=2 S=2
545 IFR,7THEN#500 CO=5 P=P+1
550 IFR,8THEN#500 CO=5 S=2
560 IFR,9THEN#500
565 IFR,10THEN#3
570 RETURN
580 CHA POK (7580+CO)*8+22# CYO+8//
620 IFR,10THEN#500 CO=10 P=P+1 S=1
630 IFR,11THEN#500 CO=50 P=P+5 S=1
640 IFR,12THEN#500 CO=2 S=2
645 IFR,13THEN#500 CO=5 P=P+1
650 IFR,14THEN#500 CO=5 S=2
660 IFR,15THEN#3
665 IFR,16THEN#3
670 RETURN
700 IFR,17THEN#500 CO=10 P=P+1 CYO+8//
710 S=1 CO=50 P=P+50 POK E36877,0 RETURN
800 GOTO 410 POK E36879,17 PRINT "PSC POK E36879,0 POK E36877,0
810 PRINT "WAITER GO!"
820 GET# IFR,18THEN#600
830 IFR,19THEN#10
840 IFR,20THEN#10 POK E36879,240 END
850 DOTO 820
900 AL=15 FOR N=110500 NEIT POK E36879,1 WAIT 100,1 POK E36879,0 TIA=15 RETURN
```



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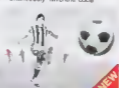


Definitely one of the best arcade action games around for the 64. Shoot the worm and everything else in the garden whilst avoiding the deadly spider and swooping eagle. Machine code using high resolution and Sprite graphics with excellent sound. Beware: it's very addictive.

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1/84

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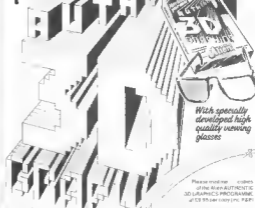
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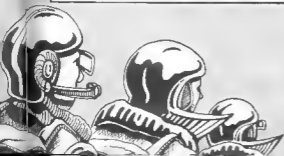
160 REM MOTHERSHIP
165 PRINT AT 2,5,"
170 PRINT AT 3,4,"
175 PRINT AT 4,5,"
177 LET Q=PEEK 16396+PEEK 16397
*256+643
185 PRINT AT 0,0," "ES," ESCAP
ED "LOS," LOST "UNL," TO LAUNC
H
190 LET A$="
200 LET B$="
210 LET C$="
220 LET D$="
230 LET P=1
232 GOSUB 1000
235 PRINT AT 5,U;A$:AT 6,V;B$:A
T 6,X;A$:AT 6,X;B$:AT 5,V;A$:AT
5,V;B$:AT 5,Z;A$:AT 6,Z;B$:AT 0,
R;C$:AT 9,A;D$:AT 8,S;C$:AT 9,S,
D$:AT 0,T;C$:AT 9,T;D$
300 LET U=U+P
310 LET X=X+P
320 LET V=V+P
330 LET Z=Z+P
340 LET R=R+P
350 LET S=S+P
360 LET T=T+P
365 IF Z=26 THEN LET Q=1
370 IF Q=1 THEN LET P=-1
375 IF U=1 THEN LET D=0
380 IF Q=0 THEN LET P=1
400 IF INKEY$<>"S" THEN GOTO 41
0
402 POKE Q,128
404 LET Q=Q+1
405 POKE Q,156
410 IF INKEY$<>"S" THEN GOTO 42
0
412 POKE Q,128
414 LET Q=Q+1
416 POKE Q,156
420 IF INKEY$<>"S" THEN GOTO 43
0
422 POKE Q,166
425 GOTO 335
430 POKE Q,128
432 LET Q=Q+33
434 POKE Q,166
436 LET L=PEEK (Q-33)
438 IF L=128 THEN GOTO 235
439 IF L=1 OR L=2 THEN GOSUB
4000
440 IF L=128 AND L=1 AND L=
0 THEN GOSUB 3000
445 IF UNL=0 THEN GOTO 2000
450 GOTO 177
500 STOP
1000 PRINT AT 20,15;"",AT 21,15
"
1010 POKE Q,166
1020 PRINT AT 20,4,""
1030 IF INKEY$<>"L" THEN GOTO 10
30
1040 PRINT AT 20,4;"
1045 LET UNL=UNL-1
1050 PRINT AT 0,0," "ES," ESCAP
ED "LOS," LOST "UNL," TO LAUNC
H

```

```

1050 PRINT AT 21,15;CHR$ 137
1060 RETURN
2000 FOR F=1 TO 10
2010 NEXT F
2020 CLS
2030 PRINT AT 0,7;ES," ESCAPED "
"LOS," LOST"
2040 LET SC=(ES+100)-(LOS+50)
2050 PRINT
2060 PRINT AT 2,6,"YOUR SCORE WA
SC
2065 IF SC>750 THEN LET SC=SC+20
0
2070 IF SC>750 THEN PRINT AT 4,5
"200 BONUS POINTS"
2075 IF SC>MAX THEN GOTO 2100
2080 PRINT AT 10,7,"HI SCORE ",M
AX
2085 IF F=1 TO 100
2090 NEXT F
2095 CLS
2098 PRINT AT 0,0," YOURS
HI SCORE "
2100 PRINT AT 1,0," "SC,A
T 15,MAX;"",I$
2100 PRINT AT 10,6;"ANOTHER GAME
(Y/N)"
2092 IF INKEY$<>"Y" AND INKEY$<>
"Y" THEN GOTO 2092
2093 IF INKEY$="N" THEN STOP
2094 CLS
2095 GOTO 15
2100 LET MAX=SC
2102 PRINT AT 10,2,"YOU HAVE THE
MOST POINTS.",MAX
2105 PRINT AT 11,4;"INPUT YOUR I
NITIALS"
2110 INPUT I$
2120 IF LEN I$<2 THEN GOTO 2110
2130 CLS
2140 PRINT AT 9,6;"HI SCORE.",MA
X
2150 IF INKEY$<>"S" THEN GOTO 21
20
2155 CLS
2160 GOTO 15
3000 REM EXPLOSION
3010 FOR F=1 TO 5
3020 ARND USR 16514
3030 NEXT F
3040 POKE Q,128
3050 LET LOS=LOS+1
3060 IF UNL=0 THEN GOTO 177
3000 GOSUB 2000
4000 REM SAFETY
4010 POKE Q,165
4020 LET ES=ES+1
4030 PRINT AT 0,0," "ES," ESCAP
ED "LOS," LOST "UNL," TO LAUNC
H
4040 RETURN
4999 STOP
5000 REM LOADER
5010 INPUT K
5020 LET A$=""
5030 IF A$="" THEN INPUT A$
5040 IF A$="S" THEN STOP
5050 POKE K,16+CODE A$+CODE A$(2
-476
5050 LET K=K+1
5070 LET R$=R$(3 TO )
5080 GOTO 5030

```



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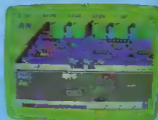
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BY JEFF MINTER

ROX 64

RUNS ON A
COMMODORE 64



```

9 REM ***BLACK SCREEN+ LIMIT MEMORY***
10 POKE53280,0 POKE53281,0:POKE56,40 CLR
11 REM***SPRITE BASES***
20 FORX=0T05:(S(X)=192+X-NEXT X:V=33240
25 DIMSC$(10),SC(10):FORX=1T010 SC$(X)="***ROX64T00**" SC(X)=0 NEXT X
30 FORX=5(0)*64T05(6)*64+64 POKEX,0 NEXTX
35 REM***OTHERSHIP***
36 FORX=0T09 READA POKES(1)*64+6+X,A NEXT X:POKE2041,S(1)
37 DATA64,20,1,16,170,4,11,255,224,21,85,00,140,0,22,144,0,6,144,0,6,144,0,6
38 DATA144,0,6,144,0,6,159,205,246,4,0,16,4,0,16,16,0,4,16,0,4,64,0,1,64,0,1
39 REM***DEFINE SPRITE #0000
40 FORX=0T07 READA POKES(0)*64+25+X*03,A NEXT X
45 DATA24,62,124,255,254,126,94,0
49 REM***SPRITE #1000
50 FORX=0T06 READA POKES(6)*64+X,A NEXT X:POKE2046,S(6)
55 DATA2,0,0,2,0,0,2,0,0,20,0,0,0,16,0,20,255,0,226,0,120,4,124,64
56 DATA5,66,64,4,66,64,2,66,120,1,67,0,2,254,120,4,56,64,0,40,32,16,56,16

```

Program notes

The program is written entirely in Basic and shows how easy it is to use the sprite and sound synthesis features of the Commodore 64.

The program contains comment lines which may be excluded. Please note that if a reversed-graphic symbol appears within a PRINT statement, it is either a CONTROL or COLUON code.

The first PRINT statement at line 5000 and the apparently empty string on line 7500 both contain the colour code generated by holding down the "Commodore" key and pressing "3". This code shows up on the screen, but does not show if listed on a Vic printer.

```

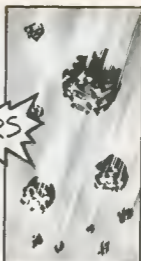
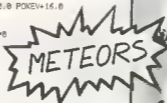
57 DATA16,40,16,16,56,16,56,40,56
59 REM***SPRITE #2000
60 FORX=0T07:READA POKES(2)*64+25+X*03,A NEXT X:POKE2042,S(2)
65 DATA192,224,110,56,24,20,2,0
67 FORX=0T09 READO(X) NEXT X:DATA160,227,247,240,96,121,111,100,32,32
69 REM***SPRITE #3000
70 FORX=0T07 READA POKES(3)*64+25+X*03,A NEXT X:POKE2043,S(3)
75 DATA8,20,20,20,20,20,42,0
79 REM***SPRITE #4000
80 FORX=0T07 READA POKES(4)*64+25+X*03,A NEXT X:POKE2044,S(4)
85 DATA3,7,14,00,24,40,64,0
86 REM***EXPLOSION SPRITE***
87 FORX=0T07 READA POKES(5)*64+25+X*03,A NEXT X:POKE2045,S(5)
88 DATA66,0,4,32,0,34,120,16
89 REM***SOUND REGISTERS***
90 VO=54296:WA=54276:RT=54277:HS=54273:LO=54272:PH=54275:PL=54274:SU=54278
95 POKEVO,15:F1=0:A=0:KEV=197:POKEAT+14,32:POKEUS+14,255
96 FORX=WAT04R+14STEP7:POKEX,17:POKEV,0 NEXT
99 REM***PRINT UP PLANET***
100 GOSUB20000:PRINT"Z":FORX=1T010:PRINT"X",NEXT
110 PRINT" "
120 PRINT" "
130 PRINT"*****LUNAR EVA MODULE #5,,, LANDING SITE SCN",
135 "DRX=0T030:POKE1104+RND(1)*600,46 NEXT DR=25:PR=3:NH=0:PT=0
140 V=33240:CO=7:POKE2040,S(0):POKEV+16,0:POKEV+45,3:POKEV+21,127:AM=1

```

```

160 GOSUB5000 IF=5 CD=8 GOSUB7500
170 FORX=V+1 TO V+43 POKEV,5 NEXT
180 POKEV+44,1
190 IF=3F+2 ROK=11 CD=CO-1
200 REM***ROCK INITIALISE***
210 SX=108 SY=18 POKEV SX POKEV+1,SY POKEV+39,CD HI=0 ROK=ROK-1 IFROK=0 THEN5000
220 YD=5 S=DF IFS=20 THEN5=20
230 POKEV,129 POKEV,200 POKELO,255:POKEVO,1 POKEV+38,0 POKEV+16,0
290 REM***MAIN MOTION LOOP***
300 SX=SX+XO*(S/3)*SV=SV+VO*5
305 IFS=255 AND HI=0 THEN HI=1 POKEV+16,PEEK(V+16)+1 SX=0
310 POKEV,SX POKEV+1,SY IFS=150 THEN1000
315 IF ITHEND=0 SUB50000 IFTHEN7000
320 S=S+.3 IFS=20 THEN5=20
330 POKEV,S/2
340 IF (PEEK(V+30) AND 65)=65 THEN10000
400 P=PEEK(KEV) IFPO=64 THEN3000
410 IF FITHEND=0 SUB50000 IFTHEN7000
500 GOTO300
595 REM***DO IMPACT SURFACE***
1000 T=SX+256*HI SP=INT(T/8)-2:POKEV,0 POKEV+1,0 POKEV+16,0:POKEVO,15 POKEH,1
1010 POKEH+14,0 FI=0 POKEV,0 FORZ=1 TO RND(1)+4 DA=DA-1 IFDA=0 THEN12000
1015 GOSUB7500
1020 FORX=1 TO10:POKEV+17,25 FORD=1 TO10 NEXT:POKEV+17,27:POKEVO,15-(X/2)
1030 FORD=1 TO10: NEXT,D,X
1040 D=178+SP P=PEEK(4) IFP=32 THEN0=1024+SP:P=PEEK(0) POKEV,0
1050 GR=0 FORX=0 TO9 IFP=0(X) THENGR=X+10

```



```

1060 NEXT X POKE0,0:GR+1 NEXT Z
1100 GOTO200
2995 REM***ACTION FOR KEYS***
3000 IF IFTHEN4000
3005 IFPO=31 AND PO=26 AND PO=39 THEN4000
3010 IFPO=31 THEN3100
3020 MX=164 MY=170 RX=V+4 RY=V+5 XD=1 N=4 GOTO3500
3100 IFPO=20 THEN3200
3110 MX=164 MY=170 RX=V+6 RY=V+7 XD=8 N=8 GOTO3500
3200 IFPO=39 THEN4000
3210 MX=164 MY=170 RX=V+8 RY=V+9 XD=1 N=16
3500 FORX=V+4 TO V+9 POKEV,0 NEXT:POKEV,MY POKEV,MY M2=0 N=N+1
3505 POKEH+14,129 POKEH+14,255-MY
3510 FI=1 GOTO410
4000 IFP=18 THEN4500
4010 IFP=41 THEN4700
4015 IFPO=60 OR P=0 THEN410
4025 PA=PA-1 POKEV,19 POKEVO,15 MX=MX MY=MY
4035 FORV=1 TO30 POKEV,3281:3 POKEV,29:POKEV,3281:8 POKEV,200 NEXT GOSUB7500
4040 GOTO7000
4495 REM***REPORT MISSION***
4500 POKEV+21,64 POKEV,129 POKEV+7,0 POKEV+14,0:POKEVO,0
4505 PRINT:*** MISSION ABORTED ***
4510 FORX=1 TO15 STEP,3 POKEV,X VV=VV-.05*V POKEV+13,VV NEXT X
4520 POKEV,17:POKEV+7,17 POKEV,32 POKEV+7,33:POKELO,VV POKELO+7,VV+10
4530 VV=VV-.75 POKEV+13,VV:POKEV,255+VV POKEV+7,249-VV IFVV>6 THEN4530
4540 GOTO11000
4695 REM***PAUSE FEATURE***
4700 PRINT:*** PAUSE MODE - 'P' TO RESTART ***

```

The planet looked peaceful as the exploration team climbed slowly down from EXPO-32, part of the survey fleet sent out to explore far flung sectors of the galaxy. The equipment was quickly set up and the various experiments began. Suddenly the peaceful scene was shattered by a warning alarm from the spacecraft. Meteors! A huge shower heading directly for the exploration team. Will the explorers manage to fight off the rock shower and survive until the mother-ship comes to their aid? Play on!

The meteors come in waves — 10 meteors to each wave. If you survive six waves, the mother-ship appears and collects the exploration team — departing impressively! You can only have one rocket on screen at a time. The "V" key fires a rocket angled toward the left, the "N" key fires rockets to the right, the "B" key fires one rocket vertically. You are also armed with three PANIC destructors which destroy rocks anywhere on the screen. These are activated by pressing the Space key. You may abort your mission by pressing "A" — but use this only as a last resort when destruction is inevitable.

Scoring: You get 100 x the wave number for shooting a meteor, a bonus at the end of each wave, a 5000 bonus for not being blown up, a 5000 bonus for being picked up by the mother-ship and an accuracy bonus depending on the number of rocks destroyed. The top ten scorers are featured in a Hall of Fame.



PANIC

MAN ALL
ROCKET
STATIONS

```

4705 POKES3281,1 IFPEEK(KEY)C=64THEN4708
4710 IFPEEK(KEY)C=41THEN4710
4715 IFPEEK(KEY)C=64THEN4715
4720 POKES3281,0 PRINT"
4999 REM***LEN DISPLAY***
5880 POKET,32 POKESU,255 POKET+7,32 POKESU+7,255 POKEN,17 POKEL,0,3
5881 POKEV,15 POKEW,17 POKEW+7,17
5882 POKH+7,16
5885 POKEL+7,3 POKEN,8 POKEL,8
5810 VV=3 L=5(6)*64+13 POKEV+12,168
5820 POKEL,16 POKEL=3,16 FORK=1TOS VV=VV+3 POKEV+13,VV POKEL,VV POKEL+7,VV
5825 NEXT K
5830 GOSUB5880 IFVV=17STHEN5860
5840 POKEL,8 POKEL=3,8 FORK=1TOS VV=VV+3 POKEV+13,VV POKEL,VV POKEL+7,VV
5850 NEXT K GOTO5820
5860 PRINT"      RETRO THRUSTERS FIRING..."
5862 POKEW,129 POKEW+7,129 POKH,7 FORK=15TO1STEP-.06 POKEV,X GOSUB5880
5865 VV=VV+.04 POKEV+13,VV NEXT K
5875 PRINT"*** PLANETFALL SUCCESSFUL ***"
5870 POKEW,17 POKEW+7,8
5880 POKEV,15 FORK=1TOS PRINT"*****" POKEN,28 FORDL=1TO100 NEXT
5890 PRINT"*****" POKEN,8 FORDL=1TO100 NEXT NEXT
5100 PRINT"
5110 FORDL=1TO1000 NEXT PRINT"METEOR SHOWER... MAN ALL ROCKET STATIONS".
5115 POKEW,17 FORK=1TOS POKES3281,K FORZ=0TO40STEP,5
5120 POKEN,2 NEXT Z NEXT K POKES3281,0
5200 PRINT"
5500 PRINT"*****ALTITUDE  ",195-INT(VV)," "
5510 RETURN
5999 REM***MOVE MY ROCKET***
6000 MX=RX+XD*0 IFMX>255THENMX=MX-255 POKEV+16,PEEK(V+16)+16
6010 MY=MY+YD IFMY>255THENPOKEV,0 FI=0 POKEW+14,0 RETURN
6020 POKEV,MY POKERY,MY ER=0 POKH+14,255-MY POKEV,15
6025 IF(PERY*(Y+30)/RDH)>NTHEN5200
6100 RETURN

```

" 00T0410

MOONQUAKE

RETRO
THRUSTERS
FIRE

```

5280 ER=1 POKEW+14,0 PT=PT+RU#100 GOTO7500
5999 REM***DO AN EXPLOSION***
7000 POKH,6 POKEV,15 POKEV+1,0 POKERY,0 N=0 POKEW,129
7005 IFHI=1THENPOKEV+15,32
7010 FORK=15TO0STEP-.3 POKEV+10,SK POKEV+11,SY POKEV,X POKEV+29,32 POKEV+29,32
7020 POKEV+11,0 FI=0 GOTO7000
7030 POKEV+11,0 FI=0 GOTO7000
7400 REM***STATUS***
7500 PRINT"*****SCORE*****SCORE" PT, " " PANICS ", PA, " "
7505 PRINT"  *TON *SC(1)
7506 C0=" IFOR(10THENC0="
7507 X=FREE(0) REM AVOIDS GARBAGE COLLECTION
7520 IFDA=0THENPRINT"*****" RETURN
7510 PRINT"*****GARBAGE  ",C0, FORK=1TODR PRINT" ", NEXT K PRINT" ", RETURN

```

```

7999 REM***ATTACK WAVES***
8000 PRINT:REM      ROCK ATTACK: AN "H" COMPLETED!"
8010 PRINT:REM      BONUS OF 100 "H" RW
8020 PT=PT+RW*100 POKEV,15 POKEW,33 FORW=8TO10 POKE53281,RND(1)*15 FORV=8TO60
8030 POKEV,V NEXTV NEXTX POKEW,0 POKE53281,0
8040 PRINT:REM
8045 PRINT:REM
8050 RW=RW+1 IFRW<7THEN180
8060 GOTO15000
8099 REM***MOON IN MOONBASE***
8100 PRINT:REM      ***MOON BASE DONE IN "H"***
8101 POKEV+21,32 POKEW,129 POKEH,RND(1)*254 FORW=15TO8STEP-.1
8102 POKEV+10,178 POKEW+11,180 POKEV+23,0 POKEV+29,0 POKEV,0
8103 POKEV+10,166 POKEV+11,174 POKEV+23,32 POKEV+29,32 POKEV,0 NEXT X
8104 POKEV+21,0 POKEW,0 BL=1
810999 REM***ENDGAME SCORING***
81100 PRINT:REM      YOUR SCORE WAS "H",RT
81105 POKEW,0 POKEW+7,0 POKEW+14,0
81110 PRINT:REM      THIS IS ADDED A BONUS FOR YOUR "H",INT(8W*100/40)
81120 PRINT:REM      "PERCENT SHOOTING ACCURACY." B=INT((8W/50)*5000)
81130 PRINT:REM      "B1 PT=PT+B1
81140 TFL=1THENBL=0 GOTO11100
81150 PRINT:REM      "AND AN ADDITIONAL BONUS- FOR FINISHING"
81160 PRINT:REM      "WITH AN THREAT MOON BASE!"
81170 PRINT:REM      "BONUS 5000 PTS." PT=PT+5000
81180 PRINT:REM      "YOUR FINAL SCORE WAS THIS "H",PT
811110 FORW=8TO20 GETW NEXT X Z=9 FORV=1TO10 IFRT>SC(X) THENZ=X X=11
81120 NEXT X IFZ=0THEN1500
81130 PRINT:REM      TEXT FOR SCORE TABLE "H",
81140 THPUTA=1LEN(RS)+15THENR=LEFT$(RS,15)
81150 IFZ=10THEN1200
81160 FORX=9TO2STEP-1 SC(X+1)=SC(X) SC(X+1)=SC(X) NEXT X

```



```

11200 SC(Z+PT SC(Z)=RS FI=0
11200 PRINT:REM      "SCORE-64 ALL TIME BEST"
11210 PRINT:REM      "
11220 FORX=1TO10 PRINT:REM      "X,TAB(10),"H",SC(X) TAB(23) "H",SC(X)
11230 NEXT X W=RE(0)
11240 PRINT:REM      "PRESS "SPACE" FOR A NEW GAME"
11250 P=PEEK(KEV) IFP<68THEN11550
11260 GOTO100
11499 REM***MOONLUKE!***
11500 PRINT:REM      ***EXCESS SEISMIC ACTIVITY*** 005U87500
11510 POKEW,129 POKEH,5 FORW=15TO8STEP-.07 POKEV+17,26 FORV=1TO10 NEXT
11520 POKEV+17,27 FORV=1TO10 NEXT POKEV,0 NEXT X GOTO 18000
11530 REM***MOTHERSHIP PICKUP***
11540 POKEV+21,66 POKEV+29,2 POKEV+37,7 POKEV+38,2
11550 PRINT:REM      "MISSION COMPLETED. MOTHERSHIP BONUS 5000"
11560 POKEV+23,2 POKEV+29,2 POKEV+40,4 POKEV,15 POKEW,33 POKEW+7,33
11570 PT=PT+5000 005U87500

```

```

15820 POKEH,2 POKEW+7,2 POKELO,1 POKELO+7,6 POKEV+3,70
15830 FORW=8TO156STEP,2 POKEV+2,X CL=CL+3 IFCL>15THENCL=0
15840 POKEV+40,CL POKEV+37,15-CL NEXT X
15850 POKEW+14,129 FORW=15TO8STEP-.1 W=VW-.05*(15-X) ROKEV+13,VV POKEV+38,X
15865 NEXT X POKEW+14,17
15870 W=VW-.75 POKEV+13,VV POKEW+14,206-VV IFW<77THEN15870
15880 POKEV+38,2 POKEW+14,0
15890 FORW=15TO226STEP,2 POKEV+2,X
15905 W=VW-.2 POKEV+13,VV POKEW+12,X+12 CL=CL+1 IFCL>15THENCL=0
15915 POKEV+40,CL POKEV+37,15-CL
15920 POKEW+3,227-X NEXT X GOTO11000
15999 REM***INTRO TITLES***
20000 PRINT:REM      "
20010 PRINT:REM      "
20020 PRINT:REM      "
20030 PRINT:REM      "
20040 PRINT:REM      "
20050 PRINT:REM      "AND AN ARCADE-STYLE GAME FOR COMMODORE-64"
20060 PRINT:REM      "DEFEND YOUR LUNAR MODULE BY FIRING OFF"
20070 PRINT:REM      "ROCKETS TO INTERCEPT INCOMING METEORS."
20080 PRINT:REM      "TOO MANY GROUND IMPACTS RESULT IN AN"
20090 PRINT:REM      "EARTHQUAKE! SURVIVE 60 METEORS FOR BONUS"
20100 PRINT:REM      "AND RESCUE BY MOTHERSHIP!"
20110 PRINT:REM      "CONTROLS W,D,N,FIRE ROCKETS, SPACE BAR"
20120 PRINT:REM      "ACTIVATES PANIC DESTRUCTOR, W TO ABORT!"
20130 FORW=93248TO53248+16 POKEH,0 NEXT
20140 PRINT:REM      "PRESS W TO START GAME!"
20150 IFPEEK(197)<15THEN20140
20150 RETURN

```

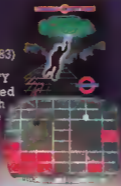


TERMINAL SOFTWARE

commodore 64 games cassettes

SUPER SKRAMBLE!

Personal Computer News (15-21 Sept '83) gave **SUPER SKRAMBLE!** an overall rating of **NINETEEN OUT OF TWENTY** and described it as: "Well implemented with beautifully smooth scrolling and very nice graphics."



SUPER GRIDDER

"... a compelling piece of frivolity that could give hours of fun." was the verdict of Personal Computer News (22-28 Sept '83).



SUPER SKRAMBLE!

"An excellent game" said Video Games magazine

STELLAR DODGER

A game of skill and anticipation in which you must dodge your way through asteroids to complete your mission.

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NEW

SUPER DOGFIGHT

The first 64 games cassette to have **SIMULTANEOUS TWO-PLAYER ACTION** - realistic sound effects too.

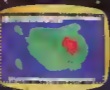
HUNTER

A fast action game in which your pursuers gain in speed and intelligence as you master each successive screen.

Sinclair Spectrum **48k**

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graphic adventures and every game is different from the one before.



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PUZZLING

Number charts

As our super de-luxe chart shows, 9876543210 is very nearly a remarkable number. It fails to qualify, as do so many mathematical marvels, when it reaches the seventh stage.

The property it nearly possesses, expressed somewhat formally, is that, for $N=1$ to 10, the number formed by the first N digits can be divided exactly by N .

In words we can understand, if accompanied by a flashing of the eyes from words to chart which will make them appear to be a couple of small comments in solar orbit, it will be clearer if we say that the number formed by the first 2 digits (98) can be divided without remainder by 2. Duto the number formed by the first 3 digits (987) — 3 will go into it exactly. And so on... until we come to the seventh digit number which is not divisible by 7.

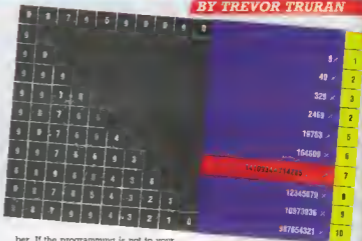
The strange thing is that there exists just one ten-digit number which uses the digits 0 to 9 once each which has the required property all the way through to 10.

Why not put your brain and your micro to work and cobble together a short program to search for that num-

ber. If the programming is not to your taste then you can find the answer by simple deduction and a spot of trial and error.

After all, it does not require the services of Bertrand Russell to realise that the tenth figure must be zero, the fifth is 5 and that odd and even digits must

BY TREVOR TRURAN



alternate.

When you have found the number, print it neatly on a card, add your name and address and hastily post to Puzzling Contest, *Computer and Video Games* Durant House, 8 Herbal Hill, London EC1R 5EJ.

Blooming petal problem

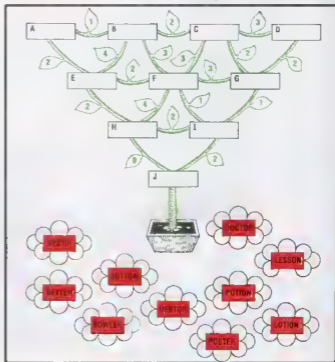
It may strike the more discerning among those present here at the perennial meeting of the East Chidgey Flower, Produce and Surf Riding Society, that it is not the ideal time of year to launch our latest botanical specimen, *Arborea Literaria*.

As you can see, despite every precaution, the blossoms have already fallen and lie scattered on the floor. If we are to preserve this species for posterity, it will be necessary to replace each bloom in its correct position with spunt gum and take a quicker-than-instant picture.

There is one clue to where each word fell from — the leaves between adjacent blossoms bear a number which gives the number of letters which are the same in both the neighbouring flowers.

Thus if BOWLER were next to BESTER, the leaf between them would have the number 2 since the letters B and R are the same in both. Note that, although both words contain the letter E, it is not counted as matching since the E's occupy different positions in the two words.

Can you save the photographer a long wait by working out the only possible position on the plant for each word?



A bit too big for its chips

The umpteenth generation of computers is getting a bit too big for its chips. Ask it a simple question, like, to take a random example, which of five people at a recent computer fair bought what computer with how many functions made in which country and you get the following stream of clever stuff:

DATA . . The Pulcom is English. It was not purchased by Mrs Bitt or Mr Putter

DATA . . The Cherry has more functions than the German computer

DATA . . Miss Watt bought the Supremo.

DATA . . The French machine has 28 functions. This is more than Mr Jones' purchase and less than the Supremo.

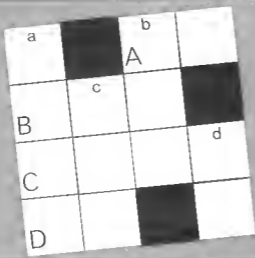
DATA . . Mrs Bitt's computer has less functions than the Cherry, but 14 more than the machine from Luxembourg, which is not the Supremo.

DATA . . The SRG has twice as many functions as Mr Cross's computer

Ask you! And you know what's coming, don't you? Can you work out the name of the person who bought each machine, its country of origin and number of functions?

The grid can be used to sort things out, a cross in a square will indicate an impossible combination and a tick a positive link.

So tiny a crossword



	COMPUTER					FUNCTIONS					COUNTRY				
	Cherry	Pulcom	Mindswap	SRG	Supremo	14	21	28	35	42	England	Germany	France	Luxembourg	Switzerland
Mrs Britt															
Mr Cross															
Mr Jones															
Ms Watt															
Mr Putter															
	14														
	21														
	28														
	35														
	42														
England															
Germany															
France															
Luxembourg															
Switzerland															
NAME	MACHINE					COUNTRY					FUNCTIONS				

In this tiny crossword, which is both ridiculously simple and simply ridiculous, the answer to each clue is a number which is entered in the grid one digit to each square.

The mysterious X is also a number, though a mystery no more once you have found it.

Since you are only allowed 2 (yes two) minutes to complete this little poser it might be an idea to let your computer do the crunching.

CLUES ACROSS:

A. The cube of the difference between the digits of X.

B. X plus a prime

C. X squared.

D. The digits add up to the square of the difference between the digits of X.

CLUES DOWN

A. 24X

B. A multiple of the product of the digits of X.

C. The square of the sum of the digits of X.

D. 2X

That snow maze on my front lawn

As a youth, Lewis Carroll liked to challenge his family and friends with mazes traced out in the snow which frequently fell on the Victorians of his generation.

Our Man in Washington, Paul McClellan, has put this winter's downfall to some purpose and tunnelled a maze on the front lawn of a local notorious residence, known as the WHITE (ouch, no pun intended) House. His intention being to give the president a more congenial task than counting missiles.

From the START, where you begin with a score of 10, wander along the paths, going down each tunnel only once, until you reach GOAL.

There are two chambers to visit along the way where your score can change for the better or worse.

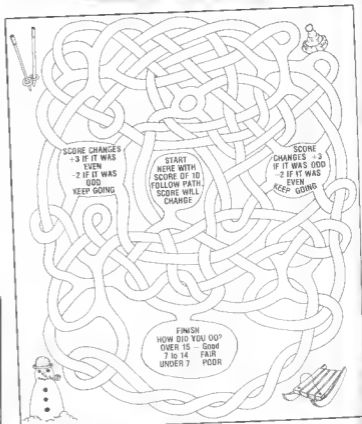
You will, naturally, find little problem in reaching your goal, but can you find a way to arrive with a score of 18?

Prize to set you talking

Our fireworks brain teaser had lots of you stumped last month as you struggled to work out how much money's worth went up in smoke.

The correct answer is that Roman candles = $20 + 20 + 20 + 10 + 2 + 1 = 73p$.
Vesuvius = $20 + 10 + 10 + 10 + 5 + 1 = 56p$.
Catherine wheel = $10 + 10 + 10 + 8 + 2 + 2 = 39p$.

The lucky winners of Pass Me talking games are Claire Coddard of Essex, Paul Hammond of Peterborough, Mr. J. W. Boyle of Essex, Guy Pauntan of Bucks., and J. Dimond of St Helier on Jersey.



SOLUTION

MICRO CROSS

D	8	1		4
C	2	2	0	9
B	1	1	8	4
A	2			7
a	b			

J = Polton; 6 = Bottom; D = Bowler; A = Loden; THE WORD TREE

Switzerland, 42 junctions. many, 35 junctions. Mr Putner, Cherry, junctions. Miss Watt, Supreme, Ger- 21 junctions. Mrs Butt, SMO, France, 28 junctions. Mr Jones, Puleom, England, 14 junctions. Mindswap, Luxembourg, 14

SNOW TROUBLE
Come now! Since there is more than one way to slip from Start to Finish, apart from sweeping the whole thing into a corner and waiting for the melting warmth of Spring, we are not going to give the answer. We affix the mental sets, therefore, and go to it!

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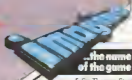


Ah

diddums



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LOST IN THE JUNGLE

Welcome to the jungle! This issue we bring you the first part of an Adventure written by our Sharp expert Frank R. Rooney. You'll not want to miss what follows in future issues — otherwise you'll be lost forever — at the mercy of all those nasty wild animals! And there are more mysterious things in this jungle too! Like hidden cities and lost tribes of particularly nasty natives. Frank has written this Adventure with our younger readers in mind — but don't think it's going to be an easy one to solve just because of that. One problem about keying in Adventure listings is that you often know all the key words and locations when you've finished. So why not get a friend to help you key in the listing then you won't know too much about the game before you begin to play. Now turn the page and soon you'll be lost in the jungle...

BY FRANK R. ROONEY

RUNS ON A
SHARP M280K

These words come from the pages of a diary found by the banks of a jungle pool.

It was the roar of some distant jungle beast that brought me back to my senses. Only then did I realise the danger I was in — alone, with miles of unexplored jungle between me and the nearest civilisation. Miles of jungle full of wild animals, deadly insects and reptiles and rife with legends of lost tribes of fierce cannibals.

Only a few short hours ago I had boarded the small light aircraft which was to fly me to exploration headquarters deep in the heart of this, the last uncharted jungle region. But soon after we crossed the river frontier of the jungle area the aircraft developed engine trouble. Suddenly smoke began to fill the cramped cockpit and we went into a steep uncontrollable dive. The aircraft smashed into the jungle canopy — and I must have been thrown clear, because I awoke some yards away from the wreckage. There was no sign of the pilot — just the sounds of some wild beast dragging something through the undergrowth.

Now the light is failing and the weird sounds of the jungle night are beginning to fill the air and I'm beginning to realise that I am well and truly lost in the jungle!



Enough of all this scene setting — what you need is some hard facts! You are lost in a jungle with only a gun — with six shots — a knife, a slingshot and two bottles of medicine.

Your aim is to find your way back to civilisation without getting killed — that's all!

You must try to keep up your energy by eating and drinking whenever possible — or you will quite simply die of exhaustion.

The jungle is 50 miles square and each move is the equivalent of one mile. Skilful judgement is required, but there are also random events that will make things even more interesting!

Will I ever be able to find my way back to civilisation? Luckily I have a small supply of emergency rations which I discovered among the wreckage of the aircraft — and water seems plentiful in this area of the jungle.

But what of the fierce natives and even fiercer jungle animals that I'll encounter on my trek through the unexplored undergrowth?

Will I be able to survive all the many dangers and hazards? Who knows! I have no choice but to attempt to find my way out of this vast jungle — otherwise I might just as well give myself up to the wild beasts now!

Don't miss next month's issue when we'll continue our exploration of Frank Rooney's weird and wonderful jungle. Don't get lost anywhere in the meantime you!

Part Two next month

PROGRAM NOTES:

Line 30: calls title graphics & tune.
40-150: bird-shoot routine (placed at beginning for speed of execution)
160-190: initialisation — start of game;
(F & H determine random starting location in jungle — at least 10 miles into jungle from any direction); instructions called
200-240: random event selection
250: move a mile without incident
260-530: berry bush routine & graphics
540-600: quicksand routine
610-1370: wild animal routine
1380-1600: spider routine
1610-1850: pond routine & graphics
1860-2020: status & direction choice
2030-2060: success routine
2070-2080: sunlight routine
2090-2390: disease routine
2400-2680: river full of piranhas routine
2690-3080: coconut tree routine
3090-3760: bird routine
3770-4210: snake routine
4220-4520: coconut tree graphics
4530-4620: quicksand graphics
4630-4770: spider graphics
4780-5130: sunlight graphics
5140-5300: disease graphics
5310-5720: civilization graphics
5730-5850: piranha graphics
5860-6040: boat graphics
6050-6310: swimming graphics
6320-6470: lion graphics
6480-6830: wolf graphics
6840-6820: tree-climbing graphics

6830-6860: move into graphics
6870-6950: instructions
6960-6980: jungle bird sounds
6990-7030: instructions cont.
7050-7240: failure music & graphics
7250-7280: option for new game
7290-7490: title graphics
7500-7540: title tune.

MAIN VARIABLES

K - energy
M - no. of bullets
MM - no. of bottles of medicine
SS - flag for slingshot
KK - flag for knife
F/H - position in jungle

NOTES ON SHARP BASIC

The program has been written in normal SP-5025 basic and occupies about 23.5K of memory.
POKE 53248 : POKE 54247 - Sharp screen locations
POKE 4466, X prints X lines down the screen
POKE 4465, Y prints Y columns across the screen
POKE 4513 & POKE 4514 are used for sound effects which are switched on by USR(66) and switched off by USR(71)
USR(62) sounds a bleep.



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```

30 GOSUB7290:GOTO160
40 GETX$:IFX$=""THENRETURN
50 IFX$=""THEN70
60 GOTO40
70 IFH=THENPRINT"#####YOU HAVE NO":PRINT"BULLETS LEFT:####":RETURN
80 FOREX=0TO50:POKE4513,EX:POKE4514,EX:USR(68):NEXTX:USR(71)
90 POKEPK,PB
100 PK=PK-B2:CC=CC+1:IFCC=7THEN120
110 GOTO90
120 IFPC=0THENM=M-1
130 IFPEEK(PK+41)=211THEN350
140 IFPC=1THENPK=53841:CC=0:PB=219:PC=0:RETURN
150 PK=53841:CC=0:PB=240:PC=1:GOTO90
160 R=1:B=12:C=13:D=14:E=25:M=6:H=12:K=101:MM=2:KK=1:SS=1
170 DIMO$(64):S$(7):F$(4):W$(2):T1$="#####":B$=CHR$(99)
180 T2$=T1$+#####
190 F=INT(RND(1)*31+10):H=INT(RND(1)*31+10):G=50-F:I=50-H:M=6:GOSUB6B70
200 GOSUB1B60
210 YR=INT(RND(1)*11)+1:IFYR=1THEN230
220 IFYR=1THEN210
230 Y=YR:IFK=2THEN1350
240 ONLYGOTO230,260,340,1610,2400,3090,2090,2690,810,1380,3770
250 PRINT"BYOU moved a mile without incident.":GOSUB1370:GOSUB6B30:GOTO200
260 PRINT"BYOU come to a bush of berries.":BC=0
270 POKE4466,B0:PRINTTAB(27):" "
280 PRINTTAB(30):"##### "
290 PRINTTAB(30):" "
300 PRINTTAB(30):" "
310 PRINTTAB(30):" "
320 PRINTTAB(30):" "
330 PRINTTAB(30):" "
340 PRINTTAB(30):" "
350 IFBC=1THENBD=15:BB=27:GOTO370
360 BD=14
370 POKE4466,B0:PRINTTAB(BB):" "
380 PRINTTAB(BB):" "
390 PRINTTAB(BB):" "
400 PRINTTAB(BB):" "
410 PRINTTAB(BB):" "
420 IFBC=1THENPRINTTAB(27):" "
430 PRINTTAB(BB):" "
440 IFBB=27THEN460
450 BB=BB+1:GOTO350
460 PRINT"#####do you eat them? (Y or N)":USR(62)
470 GETQ$:IFQ$=""THEN470
480 IFQ$="Y"THEN510
490 IFQ$="N"THEN200
500 GOTO470
510 Q=RND(1):IFQ>.5THEN530
520 PRINT"#####They make you feel quite ill!":BC=1:K=K-INT(Q*100):GOTO270
530 PRINT"#####Mmm, they are good aren't they!":GOSUB1370:K=K+INT(25*Q):GOTO200
540 PRINT"#####step into quicksand!":GOSUB4530
550 PRINT"#####at do you do?"
560 PRINT"#####A - Try to claw your way out"
570 PRINT"#####B - Give up"
580 PRINT"#####C - Grab hold of a tree branch"
590 PRINT"#####D - Start praying":USR(62)
600 GETX$:IFX$=""THEN600
610 IF(X$="A")+(X$="B")+(X$="D")THENGOSUB4610:GOTO7050
620 IFX$="C"THEN640
630 GOTO600
640 IFK<10THENPRINT"#####YOU DROP FROM":PRINT
"#####EXHAUSTION!":GOSUB1370:GOSUB4610
650 K=K-10:Q=RND(1):IFQ<.75THEN710
660 Q1=RND(1):IFQ1>.5THENPRINT"#####The branch snapped!":GOTO690
670 PRINT"#####The branches are all too high"
680 PRINT"#####G- you can't reach them."
690 PRINT"#####YOU DIDN'T MAKE IT!"
700 GOSUB1370:GOSUB4610:GOTO7050
710 PRINT"#####YOU MADE IT!":GOSUB1370
720 Q4=INT(RND(1)*4)+1:IFQ4=1THEN750
730 IFQ4=2THEN780
740 GOTO200
750 IFSS=0THEN200
760 PRINT"#####However, you lost your slingshot in the":PRINT"#####quicksand."
770 SS=0:GOTO800
780 IFKK=0THEN200
790 PRINT"#####However, you lost your knife in the":PRINT"#####quicksand":KK=0
800 GOSUB1370:GOTO200
810 YY=INT(RND(1)*2+1):IFY=2THENXA$="wolf"
820 IFYY=1THENXA$="lion"
830 PRINT"#####There is a \"XA$\" ahead."
840 IFYY=1THENGOSUB6320
850 IFYY=2THENGOSUB6480
860 PRINT"#####What do you do?"
870 PRINT"#####A - Flee"
880 PRINT"#####B - Shoot it"
890 PRINT"#####C - Use your slingshot"
900 PRINT"#####D - Use your knife"

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910 PRINT"##### - Climb a tree":USR(62)
920 GETX$:IFX$=""THEN920
930 IFX$="A"THEN930
940 IFX$="B"THEN1070
950 IFX$="C"THEN1110
960 IFX$="D"THEN1160
970 IFX$="E"THEN1200
980 GOTO920
990 GOSUB1860:Z$=X$:K=K-10
1000 PRINT"QThe "X$;" is still after you.":GOSUB1370:GOSUB1860
1010 IFD$=Z$THEN1360
1020 Q=ROUND(1):K=K-INT(Q*.25):IFQ<.25THEN1040
1030 PRINT"#####!FPRINT"YOU escaped from the "X$:GOSUB1370:GOTO200
1040 PRINT"IT CATCHES YOU":GOSUB1370
1050 Q=ROUND(1):K=K-INT(50*Q):IFK<5THEN7050
1060 PRINT"QNow what do you do?":GOTO870
1070 IFK<1THENPRINT"YOU are out of bullets "X$:GOSUB1370:GOTO1060
1080 PRINT"#####!":GOSUB6310:M=M-1:Q=ROUND(1):IFQ>.33THEN1300
1090 PRINT"YOU MISSED!":GOSUB1370:Q=ROUND(1):IFQ>.2THEN1060
1100 GOTO1180
1110 IFSS=0THENPRINT"YOU lost your slingshot - remember?"
1120 IFSS=0THENGOSUB1370:GOTO1060
1130 FORR7=1TO20:FORR8=15TO1STEP-1:POKE4514,R7:POKE4513,R8:USR(68):NEXT
1140 R7:R8:Q=ROUND(1):IFD$=QTHEN1090
1150 GOTO1300
1160 IFKK=0THENPRINT"YOU lost your knife - remember?":GOSUB1370:GOTO1180
1170 Q=ROUND(1):Y$:IFQ>.5THEN1300
1180 PRINT"BIT OVERPOWERS YOU":K=K-INT(30*Q):GOSUB1370:IFK<5THEN7050
1190 GOTO1060
1200 GOSUB6640:IFY$=1THEN1280
1210 Q=ROUND(1):K=K-INT(25*Q)
1220 PRINT"#####The wolf does not leave for":INT(6*Q+1);
1230 IFINT(6*Q+1)=1THENPRINT" hour.":GOTO1250
1240 PRINT" hours."
1250 IFK<10THEN1350
1260 PRINT"QThen you can climb down."
1270 GOSUB1370:GOTO200
1280 PRINT"#####LIONS CAN CLIMB TREES BETTER THAN"
1290 PRINT"QPEOPLE "X$:GOSUB1370:GOTO7050
1300 PRINT"QGOT IT "X$:PRINT"Do you eat it? (Y or N)":USR(62)
1310 GETX$:IFX$=""THEN1310
1320 IFX$="Y"THENK=K+20:GOTO200
1330 IFX$="N"THEN200
1340 GOTO1310
1350 PRINT"#####YOU DROP FROM EXHAUSTION!":GOSUB1370:GOTO7060
1360 PRINT"#####YOU just collided with the "X$:GOSUB1370:GOTO7050
1370 FORR1=1TO100:NEXTR1:RETURN
1380 U9=INT(RND(1)*2+1):IFU9=1THENY$="Tarantula":GOTO1400
1390 Y$="Black Widow spider"
1400 PRINT"QA "Y$:PRINT"Blends on your neck!":GOSUB4630
1410 PRINT"#####What do you do?"
1420 PRINT"QA - Stay as still as possible"
1430 PRINT"BA - Try to brush it off"
1440 PRINT"BC - Shoot it"
1450 PRINT"BD - Cry":USR(62)
1460 GETX$:IFX$=""THEN1460
1470 IF(X$="A")+(X$="B")THEN1570
1480 IFX$="D"THEN1580
1490 IFX$="C"THEN1510
1500 GOTO1460
1510 IFK<1THENPRINT"YOU are out of bullets!":GOSUB1370:PRINT"Q":GOTO1400
1520 M=M-1:PRINT"#####!":GOSUB6310
1530 Q=ROUND(1):IFQ>.75THENPRINT"YOU JUST BLEW YOUR HEAD OFF!"
1540 GOSUB1370:GOTO7060
1550 PRINT"YOU are a good shot! You got it!"
1560 PRINT"QHowever you wounded yourself. "X$:M=M-15:GOSUB1370:GOTO200
1570 Q=ROUND(1):IFQ>.2THEN1600
1580 PRINT"BIT BITES!"
1590 POKE4466,21:PRINTTAB(28);">"X$:GOSUB1370:GOTO7050
1600 PRINT"#####IT CRAWLS OFF WITHOUT BITING":GOSUB1370:GOTO200
1610 PRINT"YOU come to a pond:M=L=0
1620 POKE4466,15:PRINTTAB(25);"
1630 PRINTTAB(25);"
1640 PRINTTAB(25);"
1650 PRINTTAB(25);"
1660 PRINTTAB(25);"
1670 PRINTTAB(25);"
1680 PRINT"#####"
1690 IFML=1THENMJ=25
1700 MJ=1
1710 IFML=1THENPRINTTAB(25);" "X$:CHR$(101):GOTO1850
1720 PRINTTAB(MJ);" "X$:CHR$(101):GOTO1850
1730 IFMJ=25THEN1750
1740 MJ=MJ+1:GOTO1720
1750 PRINT"##### you drink from it? (Y or N)":USR(62)
1760 GETX$:IFX$=""THEN1760

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sinclair special

6



Inside...

*Setting new standards in
educational software with
Sinclair-Macmillan*

Plus six other learning programs

TODAY, LEARNING IS A NEW GAME

Subsidised microcomputers are now commonplace as teaching aids for the very youngest children and the ZX Spectrum is prominent amongst those micros at use in schools.

In the relatively short time that the Spectrum has been of work in the classroom, two questions have been answered. Yes: with the right software, the micro can and does teach effectively and thoroughly, (and gives teachers more time to devote to individual pupils). Yes: young children think little of working rapidly and successfully, with a screen and keyboard, on even quite complex subjects.

In this Sinclair Special we reveal a range of educational software specifically designed to make full use of these advantages. The programs produced by Sinclair in collaboration with Macmillan Education are fascinating. They deal imaginatively and most effectively with early reading skills and take a truly refreshing approach to basic science.

In the Blackboard range we've programs which bring a light-hearted clarity to the tricky matters of spelling and punctuation.

These programs are designed for use both at home and in the classroom. Each program is accompanied by full documentation which gives parents helpful advice and guidance on the educational objectives.

The programs covered on these pages represent only a fraction of the full and fast-growing list of Spectrum software. Be assured we'll keep you in touch with new developments as they happen.

David Park

David Park
Education Marketing Manager

NEW WAYS TO LEARN WITH THE ZX SPECTRUM[®]

Programs from Blackboard Software

The new range of educational programs from Blackboard Software makes learning an enjoyable process by involving the child in a game which teaches as it entertains.

Each program has a step-by-step example section and gives correct answers after a number of attempts. Vocabulary changes can be made, allowing each program to keep pace with the child's development. This flexibility can also be used in the classroom to cater for children of differing ability.

The instructive and colourful games which follow the successful completion of each group of sentences provide useful practice in letter recognition and increase familiarity with the Spectrum keyboard.

All programs are written for the 48K RAM Spectrum.



Alphabet Games

Three games of letter recognition (using either upper or lower case) to help children learn the alphabet and find their way round the computer keyboard.

Alphapage — The full alphabet is displayed, along with a second, incomplete version. The child must fill in the missing letters.

Random Rats — Press the letter key that is displayed on the gun to destroy the rats which have invaded the cellar!

Invaders — Stop little green men from landing on Earth by pressing the appropriate letter.

Early Punctuation

While an animated matchstick man marches above displayed sentences the child must decide which punctuation mark is missing and where to insert it. At the touch of a key the matchstick men drops the mark into place. After successful completion of every sentence in the exercise, light relief comes in the form of a bottle-shooting game!

The Apostrophe

As each sentence is displayed, a bird appears with a worm in its beak. The keyboard is used to move the bird and drop the worm into the correct place for the apostrophe. When ten sentences have been corrected, the Grub Game is displayed. Press the correct character to change the grub into a butterfly... before it munches through a flower!

Capital Letters

A program to teach the use of capital letters. Sentences incorporating proper nouns and sentences without opening capitals are displayed. The child inserts the correction by guiding an animated figure to the appropriate letter.

For each correct answer an apple grows on a tree. After ten correct answers the child's skills in recognizing letters and using the Spectrum keyboard are needed to save the apples as they fall to the ground.

Speech Marks

A comprehensive program including sentences with one or two sets of speech marks ("Inverted commas") and exercises in both direct and reported speech.

Using the Spectrum keyboard, a cursor is used to guide speech marks to the correct position. The program offers three levels of difficulty, with full examples for each section. Guide Max the mouse through a maze, after the correct completion of five sentences from each section, but beware of Persian cats!

Castle Spellierous

A spelling game with ten levels of vocabulary, including words with silent first letters, double letters and other difficult words. The Princess has been captured and carried off to Castle Spellierous. Helped by ten soldiers, the child can attempt a rescue by giving the right answers. Part of a siege tower is built for each correctly spelled word. Mistakes are costly — the wicked wizard appears as a vampire bat, turning the men into frogs, butterflies and bats!

When ten words are spelt correctly the rescue begins and the wizard takes flight.

SINCLAIR + MACMILLAN: A NEW DIMENSION IN EDUCATIONAL PROGRAMS

Sinclair have joined forces with Macmillan Education to produce a completely new and different range of educational software. The results so far can be seen in these exceptional programs.

The Learn to Read series is derived from Macmillan Education's best-selling primary school reading scheme, Gay Way. It offers a unique opportunity for parents and

teachers to participate in the child's first experience in reading.

Macmillan Education's Science Horizons is one of Britain's most successful school science schemes. Each program concentrates on key scientific ideas and, through simulation of real life, makes the learning process entertaining and enjoyable.



Learn to Read 1

Learn to Read 1 is designed for children who are just beginning to read. It is in four parts, each of which develops skills central to the reading process — letter recognition, sight vocabulary, early spelling and memory. The program is full of colour and fun and children will enjoy learning to read as they meet the animal characters — Ben the dog, JP the cat and their friends.



Learn to Read 2

Learn to Read 2 extends the fundamental reading skills practised in the first program, as well as encouraging logical thinking. The child's vocabulary is gradually built up as new words such as "red", "green", "car", "ship" and "bus" are introduced. In addition, Learn to Read 2 features an attractive 'reward' system enabling children to see their achievements grow.



Learn to Read 3

Learn to Read 3 builds on the child's progress so far, so that he or she can gain the confidence to move on through the complex reading process. Learn to Read 3 features four different activities, all of which are colourful and lively. Further vocabulary is introduced until the child is reading more than 30 words.



Learn to Read 4

Learn to Read 4 is the alphabet program in the Learn to Read series.

Using various stimulating activities the program gives the child plenty of practice in working with the alphabet — matching initial letters to words and pictures and spotting missing letters. These exercises build familiarity with simple sequences within the alphabet.



Learn to Read 5

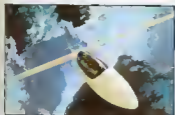
Learn to Read 5 teaches positional language — often difficult to understand and remember — by using words and phrases such as "behind" and "in front of", "inside" and "outside".

The program first demonstrates the meanings of the words using clear pictures. It then tests the child's understanding of the words in two lively games.



Cargo

Set sail around the world. Choose your ports of call — New York, Tokyo, Belem, Helsinki — then the real challenge begins! You must reach your destinations safely, weathering storms on the way. But first, load your cargo — using all your knowledge and skill! Poor loading can mean capsizing and sinking. Your rank, not your life, is always at stake!



Glider

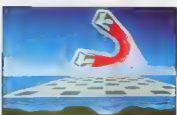
Be a glider pilot! The glider models real-life gliding conditions so that you can learn through experience. As the pilot you must consider the time of day, the amount of cloud cover and the kind of terrain below you in order to find the up-currents of air that will keep you airborne. Try to fly as far as possible and, when you are high enough, navigate your way back to your home airfield and land safely — if you can.



Survival

Discover what it is like to be an animal in the wild! Be a lion stalking your prey, escaping human hunters. Or be a hawk, mouse or even a butterfly, searching for food and avoiding predators.

Survival models the natural world and brings to life hazards that different creatures must face in their struggle to stay alive.



Magnets

With an army of small magnets you set out to conquer this powerful supermagnets of your opponent. You have one weapon — your forces of magnetic attraction and repulsion. The strategy is simple: attract smaller magnets to build strength to repel the supermagnet. When cornered, just turn your poles on your enemy and see what happens!

ZX INTERFACE 2

THE NEW ROM CARTRIDGE AND JOYSTICK INTERFACE

Now available in shops



Loads programs instantly
Takes two joysticks
Just plug-in and play

The ZX Interface 2 is the latest new peripheral for the ZX Spectrum system. It enables you to use new ZX ROM cartridge software: plug-in programs that load instantly. There are ten terrific games already available on cartridge. ZX Interface 2 also allows you to use

one or two standard joysticks without the need for separate special interfaces.

To use new ZX ROM Cartridge programs, just connect Interface 2 to the rear of your Spectrum or Interface 1 and plug in the cartridge of your choice. Switch on and the program is then loaded, ready to run!

You can use any joystick that has a 9-way D plug. Use one or two of them for extra fun with suitable ZX ROM cartridge or Sinclair cassetta programs – or with dozens of other Spectrum programs.

ZX MICRODRIVE/ ZX INTERFACE 1

The ZX Microdrive System is unique. This compact, expandable add-on system provides high-speed access to massive data storage. With just one Microdrive and a ZX Interface 1 you'll have at least 85K bytes of storage, the ability to LOAD and SAVE in a matter of seconds, the beginnings of a local area network of up to 64 Spectrums and a built-in RS232 Interface. The cost? Less than £80.

How to get ZX Microdrive and ZX Interface 1

Spectrum owners who bought direct from us by mail order have been sent full details. Order forms are being mailed in strict rotation. If you haven't yet received your order form please bear with us. We're making good progress in meeting the huge demand.

If you didn't buy your Spectrum by mail order, send us the form at the bottom of this page and we'll add your name to the mailing list.

How to order

Complete the appropriate sections on the order form below. Note that there is no postage or packing to pay on software purchases. Orders may be sent FREEPOST (no stamp needed). Credit card holders may order by phone, calling 01-200 0200, 24 hours a day. Please allow 28 days for delivery.

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Sinclair Research Ltd, Stanhope Road, Camberley, Surrey, GU15 3PS. Telephone: (0276) 685311.

To: Sinclair Research Ltd, FREEPOST, Camberley, Surrey, GU15 3BR.

Section A Hardware

Qty	Item	Code	Item Price £	Total £
	ZX Interface 2	8501	19.95	
	ZX Spectrum - 48K	3000	129.95	
	ZX Spectrum - 128K	3002	99.95	
	Postage and packing orders under £90	0028	2.95	
	orders over £90	0029	4.95	
			TOTAL £	

Section B Software

	E10/S Learn to Read 1	4309	9.95	
	E11/S Learn to Read 2	4310	9.95	
	E12/S Learn to Read 3	4311	9.95	
	E13/S Learn to Read 4	4312	9.95	
	E14/S Learn to Read 5	4313	9.95	
	E15/S Cargo	4314	9.95	
	E16/S Glider	4315	9.95	
	E17/S Survival	4316	9.95	
	E18/S Magnets	4317	9.95	
	E19/S Early Punctuation	4318	7.95	

ORDER FORM

E20/S Speech Marks	4319	7.95
E21/S Apocryphes	4320	7.95
E22/S Capital Letters	4321	7.95
E23/S Castle Spellious	4322	7.95
E24/S Alphabet Games	4323	7.95
		TOTAL £

* I enclose a cheque/postal order made payable to Sinclair Research Ltd for £.

* Please charge my Access/Barleycard/Trustcard account no
* Delete/complete as appropriate

Signature

Mr/Mrs/Miss

Address

CVG 401
(Please print)

ZX Microdrive™ information request

Please add my name to the Microdrive Mailing List and send me a colour brochure with full specifications of ZX Microdrive/Interface 1 ☐ (tick here).

Free Sinclair ZX™ Software Catalogue

Please reserve my priority copy of the January 1984 Sinclair ZX Spectrum Software Catalogue ☐ (tick here).

Please use the form above to send your name and address.

GRAPHICS

By Garry Marshall

FANCY MAKING A DOUGHNUT?

This issue we present a short graphics program that shows how easily a complex shape can be plotted in a realistic way.

The object that is displayed has the shape of a ring doughnut, and its proper name is a Torus. By starting with a circle and a line that does not cut the circle anywhere, the shape of a Torus can be swept out by revolving the circle around the line. The accompanying illustrations, which were generated by our program, show cross-sections through the doughnut, all of which take the form of rings.

The program is written for the BBC Model B microcomputer and uses its highest resolution graphics mode. Since the only graphics commands in the program are the ones to set the graphics mode, and MOVE and DRAW, it is a simple matter to convert the program to run on any other micro having high-resolution graphics facilities.

The views of the Torus are drawn as they would be seen from a considerable distance. This simplifies the problem of constructing a per-

spective view. The direction of viewing is fixed by the two angles A1 and A2 as shown in the illustration.

The same names are used for the corresponding variables in the program. In fact these two angles are exactly those used in a coordinate system that is an invaluable aid in solid geometry, and they are also used in astronomy, one of the angles is the azimuth.

In the program, R1 is the radius of the circle that sweeps out the Torus

and R2 is its distance from the line about which it revolves.

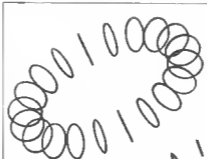
The arrays X and Y hold the x- and y-coordinates of points on each cross-section of the Torus that is plotted. All the other variables hold intermediate results.

The illustrations were plotted using the following values.

For the first, R1 and R2 were 50 and 250 respectively, and A1 and A2 were both 45 degrees. For the second, R1 and R2 were 25 and 250, and A1 and A2 were both 60 degrees.

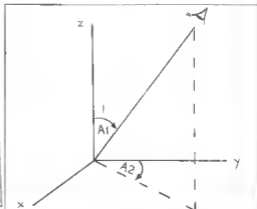
The program that produced the first Torus was the listing shown at the bottom left-hand side of this page.

These two illustrations show the Torus plotted using the information in my article.



```

10 MODE 0
20 DIM CS(100), SN(100),
  X(100), Y(100)
30 DN = PI/50 : AN = 0
40 FOR I = 1 TO 100
50 CS(I) = COS(AN) : SN(I) =
  SIN(AN) : AN = AN + DN
60 NEXT I
70 R1=50 : R2=250 : A1=PI/4
  : A2=A1
80 FOR J = 1 TO 100
90 X(J)=R1+R2*CS(J) : Y(J)=R1*SN(J)
100 NEXT J
110 D1 = COS(A1) :
  D2 = SIN(A1) : D3 = COS(A2) : D4 = SIN(A2)
120 FOR K = 1 TO 100 STEP 5
130 C = CS(K) : S = SN(K)
140 E1 = D1*D3*C - D2*S : E2
  = D1*D4
150 E3 = -D4*C : E4 = D3
160 MOVE E1*X(1)
  +E2*Y(1)+700
  E3*X(1)+E4*Y(1)+500
170 FOR L = 1 TO 100
180 DRAW
  E1*X(L)+E2*Y(L)+700,
  E3*X(L)+E4*Y(L)+500
190 NEXT L
200 NEXT K
210 END
  
```



THE SEVEN

A FEELING OF DÉJÀ VU?

"Daar Sir," writes a reader from Cumbaria, "after careful study of the Seventh Empire maps I think November and December I think JADEG will provide the best trade index (about 1050)." "Fanthmore I feel that only 23 battles will take place, with bonuses of -2 at XAPUS and -3 at GIRIX."

"All of these predictions will surely come about unless the JADEG 'mole' is discovered in time."

"Please send me some software for my BBC model B as a prize when JADEG romps home again in January!"

I was rather surprised to find such a letter waiting for me. Did this man have hidden powers? Could he really predict so much dated about forthcoming games? There had to be a simple explanation, and unfortunately there was.

For some reason known only to the office Pet — the computer kind — this machine did not accept any of the moves which I so carefully typed in for turn 5 of the game. This is why the results as printed in December's issue are so similar to the previous set. In fact, most are identical apart from the odd imperial ship.

So I gathered the crumpled order forms from the dearest re-cesses of the C&VG office and typed them in again. With everything crossed that was physically possible I set the computer to re-process turn 5. And hey presto, as they say, everything seemed to work that!

So it appears that the results as printed in December's issue were incorrect. Therefore, we're going to forget that they ever existed and on this page you'll find the result of turn 5 again, but correct this time.

Your orders are due in for turn 6, which will now run in February's issue. If you have already sent turn 6 moves, I'm afraid that you'll have to wait a while longer for your positions in the galaxy will have changed.

The computer will, as usual, be available on Friday afternoons, if you'd like to give me a call I should then be able to tell you

	Ar	Ma	Ca	De	Er	Im	Gu	He	Je	Ja	Jo	Li	Me	Nu	Op	Pm	Qu	So	Ta	Th	Vi	Wa	Xa	Ye
Arak	2000	1000	1000	1000	311	250	250								1000			1000	355	500	1000			
Barr										1000			250						1000					
Caer	1000	1000			1000								250		1000			500						
Deap					1000	1000	500									1000						250		
Erme	1000	1000	1000						1000	250		100	500				500	500	1000	500	100	1000		
Fan	1000					1000	500												1000		1000	255	250	
Gu								500		500														
He	1000	1000											1000	500								1000	1000	
Im																								
Ja																								
Jo																								
Li																								
Me																								
Nu																								
Op																								
Pm																								
Qu																								
So																								
Ta																								
Th																								
Vi																								
Wa																								
Xa																								
Ye																								

your current positions if you have your code number handy. You'll find the phone number in the Seventh Empire rulebook.

TRADING COMPETITION

Quite a few people have applied to join the game during the first month, but I have not entered you as you would not have been able to supply moves in time. However, I'll keep your names. Then, if the game is restarted you will be on the top of the pile. Now, forgetting that December's page ever existed, here are the results of turn 5. Starting as always with the trading competition. Highest trade index is a LOKIK, with a value of 800. From a large pile of entries, there were 2 correct answers. The high score in the trade index was correctly predicted by Barry Weelfitt and D. Gritz. If these people could contact me with details of their computer I'll send you some software for your efforts.

BATTLE REPORT

Just ten battles were fought during turn 5, and again none was successful. Battle bonuses are at 1000. The losing player receives a

The new positions of the imperial ships and their controlling players are like this. D'Taan's Science empire is at soner and controlled by player 3201. Sun is at Widan (player 1781), Pirate is

Compare new sets to the star you left

MOVE	Does it belong to a friendly empire? Is it a square away either vertically horizontally or diagonally?	Moving orders
TRADE	Does it belong to a friendly empire? Is it a square away either vertically horizontally or diagonally? Is it a different star type?	
RAID	Is it a square away vertically or horizontally but not diagonally?	Is it the first movement phase?
	Does it belong to an alien empire?	Is it followed by a Return order?
RETURN	Is the first Returning is a star belonging to the same empire as it left on the first movement phase?	Is it the second movement phase?
	Is it a square away, vertically or horizontally but not diagonally?	Does it follow a Raid order?
ATTACK	Does it belong to an enemy empire?	Is it the first movement phase? Is it followed by a Stay order?
	Is it a square away, vertically or horizontally but not diagonally?	Is it a second movement phase? Did first move in its own empire on first movement phase?
STAY	Is first staying at present star?	Was your first order anything but a Raid order?
CARGO JUMP AND STAY PLUNDER	Does first start game turn as a Gateway Star?	Has it only one order over both movement phases?
	Does it move to a Gateway Star?	Is the fifth movement phase crossed out?
	Is it a different Gateway Star?	

Friendly — Empire which a fleet's current empire is set at war with.

Enemy — Empire which a fleet's current empire is at war with.

Same empire as the one you've left.

Alien — A star belonging to an empire other than the one you left.

The Checklist Chart is one way of ensuring that you have not entered an illegal order when may result in one of your fleets becoming lost in space.

Whatever movement orders you have given each of your seven fleets, they should be checked against this chart. And if you can answer. Yes to each of the questions set out there, then the move is a valid one.

If you come up with a No, then the order is illegal in that context. In order to prompt. Yes answers some of the questions are phrased in an unusual way.

THE SEVENTH EMPIRE

not placed but is now under the control of player 2064, Bloodline al gazor (1780). Doal al Yusos (2754), Amethyst at usug (1877) and water al Mupp (player at 2182).

SCORES

Top scorer for turn 5 is N Faruque, who scored 6000 this turn. Owing to last month's error, overall scores for the next 2 turns will also include any profit generated by the machine during the first run of turn 5. However, all scores are relative and the top ten should not be affected. The rest of the top ten for turn 5 looks like this:

From positions 9 to 1, players 3201 (5899 points), 3362 (5222), 3183 (5111), 1925 (5000), 1781 (5000), 2726 (4925), 3420 (4850), 2428 (4000) and player 1698 who also has 4000.

To find your own profit for turn 5, use the table above which should be right this month! Cargo profits are printed normally, while plunder profits are reversed.

The star travelled from is printed in full down the left hand side, while the star travelled to is abbreviated along the top.

Orders are now due in for turn 6. As I said before, any orders already with us for turn 6 will have to be sent again. Because of this, though, I will accept orders from these players over the telephone but ONLY between 11am and midday Monday to Friday. We're afraid that there will be nobody available at other times.

Please use the phone number as given in the rulebook, and ask for the Seventh Empire orders dept. Closing date for moves is Wednesday 21st December 1983.



The Diplomatic Diagram

FOZUZ ○	LARUB ○	YIRET ○	XOLIP ○	ITIL ○	FUNUS ○	LULIF ○	YANOK ○	XOKEG ○	ISOX ○
VIZAX ○	QIRUS ○	HAZAN ○	ABOB ○	SONER ○	VEPOZ ○	QATOT ○	HEZOD ○	ASOL ○	SUXEK ○
BAROV ○	WIDAN ○	REBUS ○	MUPIP ○	NAXIG ○	BETID ○	WAVAB ○	RIVEV ○	MEGUD ○	NABOK ○
DALIX ○	OLEX ○	TASAT ○	CAZUV ○	GOVAX ○	DITUG ○	OKAP ○	TOXAZ ○	CIXAN ○	GOTEG ○
ERAK ○	KOVEP ○	USUG ○	PEBOB ○	JADEG ○	ENAK ○	KEPAR ○	UGON ○	POROV ○	JINIS ○
FADIS ○	LOKIK ○	YUSES ○	XAPUS ○	IXIP ○	FAGIL ○	LIZAG ○	YODAZ ○	XUGOD ○	IBED ○
VASUX ○	QUXIN ○	HIPEB ○	ASOR ○	SIDAL ○	VIZET ○	QAVUV ○	HAKUB ○	APEL ○	SABAG ○
BUREP ○	WAGAP ○	ROLEK ○	MINEP ○	NUVEX ○	BAZIX ○	WUPIV ○	RORUL ○	MEDEN ○	NUZET ○
DUSUP ○	OPOD ○	TUBOX ○	CIGER ○	GAZOR ○	DABAG ○	OTAN ○	TUXUX ○	CESER ○	GIRIX ○
ELAK ○	KERUP ○	ULEB ○	PIRAD ○	JAXEL ○	EDIE ○	KOLOL ○	UKOP ○	PULUD ○	JUVAK ○

The Galactic Map

Orders In Block Caps please					
Name:					
Code No:		Telephone No:			
	AT	1st Movement phase		2nd Movement phase	
		ACTION	STAR	ACTION	STAR
FLEET 1					
FLEET 2					
FLEET 3					
FLEET 4					
FLEET 5					
FLEET 6					
FLEET 7					

..... Imperial Shu from to

Please notify us separately of any change of address

fantasy

SOFTWARE

- THE PYRAMID is an arcade style game which has a very adventurous feel to it.

The Pyramid contains 120 chambers on 15 levels. In order to get from one chamber to another you must fight off the indigenous aliens to collect an energised crystal which will neutralize the force field guarding the two exits.

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You proceed to explore the Pyramid from top to bottom with the difficulty generally increasing with the depth of level. Depending on the choice of exit from each chamber you are likely to have a different game every time you play.

Apart from the challenge of trying to achieve the highest score possible the pyramid contains a number puzzle to solve. The more chambers you successfully visit the more information is gathered to enable you to discover the secret numbers of the pyramid. The puzzle won't take you a few days to solve, it will probably take you a few months.



This is "ZIGGY". He is shown above in his exploratory capsule and is a true representation of the on screen graphics. You have total control over his movements as you explore the many chambers of "THE PYRAMID".

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THIS ONE YOU MUST NOT MISS!

Games galore in our bumper February edition with the action-packed Book of Games attached

The Book of Games will be a 52 fun packed bumper add-on to your favourite computer magazine. All the top micros will be featured — with a couple of games for each machine all tried and tested by our review team to ensure top quality games

We also intend to have a few surprise competitions thrown in with some of the listings to give our Book of Games that special added ingredient — more fun! So rush out to your newsagents on January 16th and get your hands on this extra special issue of C&VG!

And 'at last we hope to be bringing you the long awaited and much heralded Coleco Adam competition! Yes, we're finally going to get our hands on some of these computer systems from the people who brought you the ColecoVision video games centre.

Professor Video will be lecturing again in our Video Gaming pages with tips on Q*Bert and we'll also be bringing you all the latest news plus our regular Joystick Jury reviews.

The Seventh Empire WILL be striking back! All you long suffering Empire addicts shouldn't despair as the end — and the grand prize — is in sight. The glittering prize could be yours if you've managed to stay the course!

All that plus our regular articles and features which bring the wonderful world of computer gaming into your home.

Our brand new Program-Extra feature offers educational tips based on our games plus an extra helping hand for people who have just bought their micros

Bug Hunter will be on hand to deal with any nasties who creep into your programs over the festive season

Keith Campbell will be back

on the trail of treasure, demons, dragons, and elves and bringing news of a fun competition where you could be the lucky winner of Melbourne House's brand new Sherlock Holmes game.

We will be announcing the winners of the Golden Joysticks Awards.

Throughout the year you have been filling in and sending us your votes for Best Arcade Type Game, Best Strategy Game, Best

We also plan to bring you a round-up of computer add-ons to compliment our Games Players' Guide to Micros in our December issue. Plus a look at all the latest joysticks for micros and video games centres.

We might also be able to squeeze in a feature on laser discs and you'll soon be able to interface them with your friendly home computer and play even better games.

This here's my newsagent



Original Game, Game of the Year and Software House of the Year

The much sought after golden joysticks will be presented to representatives of the winning software houses at a special presentation lunch to be held in London in January.

But it's not just the software houses who will be receiving the goodies in our February issue. We will be also announcing the lucky ten winners of our Decathlon competition — each of whom will be receiving an Atari VCS plus three of Activision's latest games to go with each.

There will be an exclusive interview with the world's number one video game designer — Mr Pitfall — David Crane

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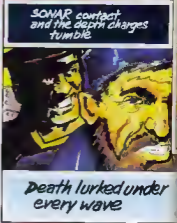
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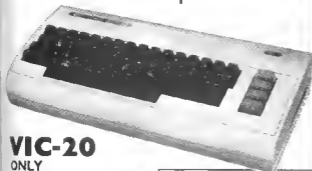
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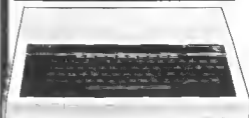


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VIC-20

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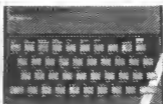
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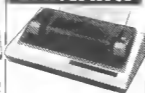
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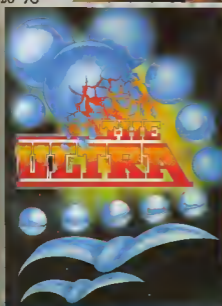
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- All lineage advertisements **MUST BE PRE-PAID** (Cheques and postal orders made payable to Computer & Video Games)
- The Publishers reserve the right to refuse an advertisement

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ATTENTION

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The sharp-eyed amongst you will have spotted the subtle changes made
to the classified advertising section in this issue of Computer & Video
Games.

These changes will be even more apparent from February onwards when
we shall be offering freepage advertising to those of you selling goods and
services for profit (what a pity!). These will appear under the heading of
MicroAds together with semi-display advertisements (formerly Super-
market). For semi-display ads the minimum size will now be two col-
umns and we shall also offer the opportunity of taking an ad across two
or even three columns.

If you've got an old ZX80 gathering dust in the attic, a collection of unused
software cluttering up your shelves or anything else you want to get rid of
you can still do so through the MicroSell section of this magazine which
has now been going for several months.

To place a semi-display advertisement in the magazine send in your copy
to C&VG, 8 Hebal Hill, London EC1R 5EL. To place a freepage advertise-
ment in either MicroAds or MicroSell fill in the order form on page 167 of
this issue.

We hope you take advantage of these new advertising options and
would like to take the opportunity of wishing you all a very prosper-
ous New Year.

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**..the name
of the game**

SITUATIONS AVAILABLE AT

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SENIOR SOFTWARE MANAGER

A position exists for a Senior Manager who will be responsible for several departments working in diverse areas of software design and production. Applicants must have proven experience in commercially orientated software environments and a wide range of technical knowledge and skills.

This is a very senior position with many exciting and rewarding aspects. Career prospects are excellent.

SOFTWARE MANAGERS

Two positions exist to manage large software departments at the forefront of the games industry. Applicants must have a proven knowledge and interest in computer games. A wide range of software skills and experience in managing programming staff.

SOFTWARE ARTISTS/GAMES PROGRAMMERS

Eight positions are available for programmers with both the technical ability and the creative skills needed to invent and code best selling games.

Fluency in at least one assembly language, artistic ability plus proven experience are the necessary qualifications. The successful applicants will be working in an innovative environment with the best available development software and equipment and will be provided with a high level of technical back up. This is the ultimate career opening for games programmers.

SYSTEMS SOFTWARE PROGRAMMERS

Two positions exist for systems software programmers working on very advanced products. Both positions are exciting and innovative. For the first, applicants must be fluent in the 'C' language and MCS68000 assemblies and be familiar with Unix type operating systems. Applicants must be able to demonstrate a wide knowledge of advanced development tools.

The second position requires a fluency in pascal and MCS68000 assembly and familiarity with the UCSD operating system. Experience of computer graphics and general business orientated applications software will be an advantage.

PROGRAMMERS

Thirty positions exist for programmers working in a team environment on many diverse aspects of microcomputer software, including the conversion and adaptation of games to new microcomputers.

Applicants should be fluent in at least one assembly language and have great familiarity with at least one currently popular consumer microcomputer. Experience is not necessary but provable ability is a qualifying factor.

GRAPHICS PROGRAMMERS

Two positions are available for programmers with skills, experience and knowledge of microcomputer graphics as applied to games software.

Applicants must be fluent in at least one popular microcomputer assembly language and preferably have a working knowledge of one other, plus familiarity with currently available microcomputer capability. Provable experience and/or ability essential.

COMPUTER MUSICIANS

Two openings are available for programmers who have the ability to write music and sound effects for popular micros.

The applicants must have a good knowledge of an assembly language and proven musical skills.

GAME DESIGNERS

Two positions exist for game designers to design a wide variety of entertainment software. Applicants will have both experience in general games design and theory plus a working knowledge of microcomputers.

TECHNICAL WRITER

An opening exists for a technical writer to prepare software manuals for both commercial products and internal development tools. A recognised writing qualification will be necessary for applicants as will a very wide working knowledge of microcomputers.

GRAPHIC ARTISTS

There are six positions available for artists working on games design and production using computer based graphic tools. A knowledge of microcomputer graphics plus excellent artistic skills are the qualifications for these positions.

Applicants should in the first instance send their C.V. to:
PERSONNEL DEPARTMENT, IMAGINE SOFTWARE LIMITED
IMAGINE HOUSE, 5 SIR THOMAS STREET, LIVERPOOL L1 6BW
or ring for an application form:- **051-236 8100 (20 lines)**

AMREX ELECTRONICS—TAVISTOCK HOUSE, 54-56 BROMHAM RD, REDFORD, HERTS MK40.
Tel: 0234-213571/2/3/4 ext. 2

Have a Fantastic Christmas



This Christmas the Three Kings are from Ocean

As well as the chart-topping Kong, who's always been climbing, there's the new, exciting Mr. Wimp - something to get your teeth into! Hunchback - sure to ring your bell! and Eskimo Eddie - chills and thrills in Santa Land.

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Save Esmerelda in the best arcade game of 1983.
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Commodore 64 £6.90

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Ocean Software is available from selected branches of: **WOOLWORTH, W. H. SMITH**, John Menzies, LASKYS, Rumbelows
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